

Observation of the spin Seebeck effect

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Citation Report

#	ARTICLE	IF	CITATIONS
3	Recipe for spin currents. Nature, 2008, 455, 741-743.	13.7	7
4	Brain's defence against cocaine. Nature, 2008, 455, 743-744.	13.7	8
5	Thermospin effects in a quantum dot connected to ferromagnetic leads. Physical Review B, 2009, 79, .	1.1	164
6	Berry phase of dislocations in graphene and valley conserving decoherence. Physical Review B, 2009, 79, .	1.1	32
7	Effects of combined current injection and laser irradiation on Permalloy microwire switching. Applied Physics Letters, 2009, 95, 212502.	1.5	8
8	Phenomenological analysis for spin-Seebeck effect in metallic magnets. Journal of Applied Physics, 2009, 105, 07C908.	1.1	36
9	Spin Seebeck Effect in Ni ₈₁ Fe ₁₉ /Pt Thin Films With Different Widths. IEEE Transactions on Magnetics, 2009, 45, 2386-2388.	1.2	13
11	Periodic rotation of magnetization in a non-centrosymmetric soft magnet induced by an electric field. Nature Materials, 2009, 8, 634-638.	13.3	59
12	A flood of spin current. Nature Materials, 2009, 8, 777-778.	13.3	11
13	NONLOCAL ELECTRONIC SPIN DETECTION, SPIN ACCUMULATION AND THE SPIN HALL EFFECT. International Journal of Modern Physics B, 2009, 23, 2413-2438.	1.0	76
14	Electric detection of spin wave resonance using inverse spin-Hall effect. Applied Physics Letters, 2009, 94, .	1.5	76
15	Thermoelectric effects in magnetic nanostructures. Physical Review B, 2009, 79, .	1.1	160
16	Thermoelectric effects in transport through a quantum dot attached to ferromagnetic electrodes. Journal of Physics: Conference Series, 2010, 213, 012021.	0.3	1
17	Detection of inverse spin-Hall effect in Nb and Nb ₄₀ Ti ₆₀ thin films. Journal of Physics: Conference Series, 2010, 200, 062038.	0.3	5
18	Fluctuation theorem in spintronics. Journal of Physics: Conference Series, 2010, 200, 052030.	0.3	8
19	Electric detection of the spin-Seebeck effect in Ni and Fe thin films at room temperature. Journal of Physics: Conference Series, 2010, 200, 062020.	0.3	7
20	Detection of inverse spin-Hall effect induced in Pt _{1â} M _x (M = Cu, Au) thin films. Journal of Physics: Conference Series, 2010, 200, 062014.	0.3	8
21	Spintronics. Annual Review of Condensed Matter Physics, 2010, 1, 71-88.	5.2	527

#	ARTICLE	IF	CITATIONS
22	Inverse Spin-Hall Effect Induced by Spin Pumping in Various Metals. IEEE Transactions on Magnetics, 2010, 46, 1331-1333.	1.2	11
23	Inverse Spin-Hall Effect Induced by Spin Pumping in Different Thickness Pt Films. IEEE Transactions on Magnetics, 2010, 46, 2202-2204.	1.2	20
24	Inverse Spin-Hall Effect Induced by Spin Pumping in Various Metals*. IEEE Transactions on Magnetics, 2010, 46, 3694-3696.	1.2	15
25	Thermospin phenomena in a quantum dot attached to ferromagnetic leads: Role of asymmetry and alignment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4269-4273.	0.9	11
26	Innovative ideas for future research on magnetocaloric technologies. International Journal of Refrigeration, 2010, 33, 449-464.	1.8	172
27	Thermal spin-transfer torques on magnetic domain walls. Solid State Communications, 2010, 150, 548-551.	0.9	29
28	Seebeck coefficients of half-metallic ferromagnets. Solid State Communications, 2010, 150, 529-532.	0.9	82
29	Spin-Seebeck effects in films. Solid State Communications, 2010, 150, 524-528.	0.9	78
30	Spin transfer from the point of view of the ferromagnetic degrees of freedom. Solid State Communications, 2010, 150, 519-523.	0.9	6
31	Exploring thermoelectric effects and Wiedemann-Franz violation in magnetic nanostructures via micromachined thermal platforms. Solid State Communications, 2010, 150, 514-518.	0.9	24
32	Advanced techniques for all-electrical spectroscopy on spin caloric phenomena. Solid State Communications, 2010, 150, 492-495.	0.9	5
33	Tailoring laser-induced domain wall pinning. Solid State Communications, 2010, 150, 489-491.	0.9	17
34	Thermoelectric spin diffusion in a ferromagnetic metal. Solid State Communications, 2010, 150, 480-484.	0.9	27
35	Contribution of electron-magnon scattering to the spin-dependent Seebeck effect in a ferromagnet. Solid State Communications, 2010, 150, 466-470.	0.9	15
36	Viewing spin structures with soft X-ray microscopy. Materials Today, 2010, 13, 14-22.	8.3	21
37	Spin Seebeck insulator. Nature Materials, 2010, 9, 894-897.	13.3	1,088
38	Observation of the spin-Seebeck effect in a ferromagnetic semiconductor. Nature Materials, 2010, 9, 898-903.	13.3	665
39	Thinks globally but acts locally. Nature Materials, 2010, 9, 880-881.	13.3	49

#	ARTICLE	IF	CITATIONS
40	Observation of second-harmonic generation induced by pure spin currents. Nature Physics, 2010, 6, 875-878.	6.5	50
41	Thermally driven spin injection from a ferromagnet into a non-magnetic metal. Nature Physics, 2010, 6, 879-882.	6.5	390
42	Photoinduced inverse spin-Hall effect: Conversion of light-polarization information into electric voltage. Applied Physics Letters, 2010, 96, .	1.5	75
43	Nanoscale magnetic heat pumps and engines. Physical Review B, 2010, 81, .	1.1	64
44	Softening versus hardening transition in surface bilayer bonding of bismuth nanofilm. Physical Review B, 2010, 82, .	1.1	7
45	Diffusive versus local spin currents in dynamic spin pumping systems. Physical Review B, 2010, 81, .	1.1	37
46	Theory of spin transport induced by a temperature gradient. Physical Review B, 2010, 82, .	1.1	25
47	Prediction of resonant all-electric spin pumping with spin-orbit coupling. Physical Review B, 2010, 82, .	1.1	10
48	Theory of magnon-driven spin Seebeck effect. Physical Review B, 2010, 81, .	1.1	557
49	Interplay of Peltier and Seebeck Effects in Nanoscale Nonlocal Spin Valves. Physical Review Letters, 2010, 105, 136601.	2.9	116
50	Direct conversion of light-polarization information into electric voltage using photoinduced inverse spin-Hall effect in Pt/GaAs hybrid structure: Spin photodetector. Journal of Applied Physics, 2010, 107, .	1.1	28
51	Second Harmonic Detection of Spin-Dependent Transport in Magnetic Nanostructures. Chinese Physics Letters, 2010, 27, 027201.	1.3	1
52	Spin transport properties in polycrystalline Gd film and strip. , 2010, , .		0
53	Spin relaxation torque and spin transport in metallic ferromagnets. , 2010, , .		0
54	Electric detection of the spin-Seebeck effect in ferromagnetic metals (invited). Journal of Applied Physics, 2010, 107, 09A951.	1.1	26
55	Thermoelectric-induced spin currents in single-molecule magnet tunnel junctions. Applied Physics Letters, 2010, 97, .	1.5	25
56	Thermospin effects of a quasi-one-dimensional system in the presence of spin-orbit interaction. Applied Physics Letters, 2010, 96, .	1.5	18
57	Initiation of spin-transfer torque by thermal transport from magnons. Physical Review B, 2010, 82, .	1.1	125

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58	Evidence for Thermal Spin-Transfer Torque. <i>Physical Review Letters</i> , 2010, 104, 146601.	2.9	114
59	Gigantic enhancement of spin Seebeck effect by phonon drag. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	157
60	Facile Preparation of Concentration-Gradient Materials with Radical Spin of the Mixed-Valence Tetrathiafulvalene in Conventional Polymer Films. <i>Langmuir</i> , 2010, 26, 10254-10258.	1.6	12
61	Optically and thermally manipulated spin transport through a quantum dot. <i>Applied Physics Letters</i> , 2010, 96, 093104.	1.5	30
62	Thermoelectric Effect in Single-Molecule-Magnet Junctions. <i>Physical Review Letters</i> , 2010, 105, 057202.	2.9	112
63	Enhancement of thermoelectric efficiency in a two-level molecule. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 185302.	0.7	16
64	Thomas Johann Seebeck and his contribution to the modern science and technology. , 2010, , .		3
65	Observation of longitudinal spin-Seebeck effect in magnetic insulators. <i>Applied Physics Letters</i> , 2010, 97, 172505.	1.5	636
66	Longitudinal spin-Seebeck effect in sintered polycrystalline (Mn,Zn)Fe ₂ O ₄ . <i>Applied Physics Letters</i> , 2010, 97, .	1.5	133
67	Electric and thermoelectric phenomena in a multilevel quantum dot attached to ferromagnetic electrodes. <i>Physical Review B</i> , 2010, 82, .	1.1	51
68	Detection and quantification of inverse spin Hall effect from spin pumping in permalloy/normal metal bilayers. <i>Physical Review B</i> , 2010, 82, .	1.1	439
69	Inverse spin-Hall effect in palladium at room temperature. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	108
70	Spin caloritronics in magnetic tunnel junctions: <i>Ab initio</i> studies. <i>Physical Review B</i> , 2011, 83, .	1.1	96
71	Spin-transfer mechanism for magnon-drag thermopower. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	35
72	Spin Hall Effect. , 2011, , 222-278.		11
73	Spin Currents Induced by Nonuniform Rashba-Type Spin-Orbit Field. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 084701.	0.7	2
74	Local Spin-Seebeck Effect Enabling Two-Dimensional Position Sensing. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 120211.	0.8	16
75	Universality of the spin pumping in metallic bilayer films. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	32

#	ARTICLE	IF	CITATIONS
76	Irreversible thermodynamics of transport across interfaces. Canadian Journal of Physics, 2011, 89, 1041-1050.	0.4	12
77	Thermal Spin Transfer in Fe-MgO-Fe Tunnel Junctions. Physical Review Letters, 2011, 107, 176603.	2.9	93
78	Graphene-based Spin Caloritronics. Nano Letters, 2011, 11, 1369-1373.	4.5	183
79	Anisotropic thermoelectric effect in helimagnetic tunnel junctions. Applied Physics Letters, 2011, 98, 192111.	1.5	16
80	Temperature-manipulated spin transport through a quantum dot transistor. Physical Review B, 2011, 83, .	1.1	30
81	Inverse spin-Hall effect induced by spin pumping in metallic system. Journal of Applied Physics, 2011, 109, .	1.1	438
82	Long-range spin Seebeck effect and acoustic spin pumping. Nature Materials, 2011, 10, 737-741.	13.3	235
83	Domain Wall Motion by the Magnonic Spin Seebeck Effect. Physical Review Letters, 2011, 107, 027205.	2.9	186
84	Thermal spin current from a ferromagnet to silicon by Seebeck spin tunnelling. Nature, 2011, 475, 82-85.	13.7	218
85	Spin-Currents and Spin-Pumping Forces for Spintronics. Entropy, 2011, 13, 316-331.	1.1	12
86	Detection of Spin-Wave Spin Current in a Magnetic Insulator. IEEE Transactions on Magnetism, 2011, 47, 1591-1594.	1.2	12
87	Linear-response theory of spin Seebeck effect in ferromagnetic insulators. Physical Review B, 2011, 83, .	1.1	239
88	Numerical study on the spin Seebeck effect. Physical Review B, 2011, 83, .	1.1	54
89	Tunneling Magnetothermopower in Magnetic Tunnel Junction Nanopillars. Physical Review Letters, 2011, 107, 177201.	2.9	138
90	Transport Properties of Pure Spin Currents in a Polycrystalline Gd Wire. IEEE Transactions on Magnetism, 2011, 47, 2750-2752.	1.2	0
91	Spin seebeck coefficient of a molecular spin pump. Physical Chemistry Chemical Physics, 2011, 13, 14350.	1.3	16
92	<i>Colloquium</i>: Heat flow and thermoelectricity in atomic and molecular junctions. Reviews of Modern Physics, 2011, 83, 131-155.	16.4	708
93	Spintronics: Current Status and Future Prospects. Hyomen Kagaku, 2011, 32, 120-127.	0.0	1

#	ARTICLE	IF	CITATIONS
94	Quantifying spin mixing conductance in F/Pt ($F=Ni, Fe$, and Tj) $ETQq000rgBT/Overlock10Tf50742Td(Ni₈₁)$	0.3	12
95	Thermally manipulated pure spin current in a spin-orbit mesoscopic interferometer. <i>Europhysics Letters</i> , 2011, 95, 57009.	0.7	6
96	Spin Pumping in Polycrystalline Magnetic Insulator/Metal Pt Films. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 2739-2742.	1.2	7
97	Photoinduced phase transitions. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 073202.	0.7	33
98	Seebeck effect in magnetic tunnel junctions. <i>Nature Materials</i> , 2011, 10, 742-746.	13.3	260
99	Thermoelectric effects in a double-dot Aharonov-Bohm interferometer with Rashba spin-orbit interaction. <i>European Physical Journal B</i> , 2011, 82, 153-158.	0.6	9
100	Heat-driven spin currents on large scales. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 423-425.	1.2	30
101	Heat transport and thermoelectric efficiency of two-level quantum dot attached to ferromagnetic electrodes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 609-613.	0.9	12
102	Thermoelectric effects in spin field-effect transistors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 3218-3222.	0.9	2
103	Quantum Oscillations of Thermoelectric Effects in a Pseudo-one-dimensional Electron Gas With a Spin-Orbit Interaction. <i>Journal of Electronic Materials</i> , 2011, 40, 601-605.	1.0	3
104	Co nanoparticle hybridization with single-crystalline Bi nanowires. <i>Nanoscale Research Letters</i> , 2011, 6, 598.	3.1	3
105	Fano-Rashba effect in thermoelectricity of a double quantum dot molecular junction. <i>Nanoscale Research Letters</i> , 2011, 6, 618.	3.1	22
106	Green's function approach in the classical theory of thermoelectricity. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2821-2833.	0.7	1
107	Exploring nanoscale magnetism in advanced materials with polarized X-rays. <i>Materials Science and Engineering Reports</i> , 2011, 72, 81-95.	14.8	18
108	Electric detection of the spin-Seebeck effect in magnetic insulator in the presence of interface barrier. <i>Journal of Physics: Conference Series</i> , 2011, 303, 012096.	0.3	2
109	Generation of Spin Current in Bipolar Conductors. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 103002.	0.8	5
110	Magnetic dynamics driven by the spin current generated via the spin Seebeck effect. <i>Physical Review B</i> , 2011, 83, .	1.1	7
111	Anomalous Nernst and anisotropic magnetoresistive heating in a lateral spin valve. <i>Physical Review B</i> , 2011, 84, .	1.1	63

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112	Manipulating the spin of single-molecule magnet by thermal spin-transfer torque. Applied Physics Letters, 2011, 99, .	1.5	14
113	Surface-acoustic-wave-driven spin pumping in Y3Fe5O12/Pt hybrid structure. Applied Physics Letters, 2011, 99, .	1.5	44
114	Modeling of thermal spin transport and spin-orbit effects in ferromagnetic/nonmagnetic mesoscopic devices. Physical Review B, 2011, 84, .	1.1	35
115	Amplification of Spin Waves by Thermal Spin-Transfer Torque. Physical Review Letters, 2011, 107, 197203.	2.9	84
116	Quasilinear spin-voltage profiles in spin thermoelectrics. Physical Review B, 2011, 84, .	1.1	11
117	Quantum thermal Hall effect in graphene. Physical Review B, 2011, 84, .	1.1	18
118	Spin Seebeck effect in thin films of the Heusler compound CoMn_2Si . Physical Review B, 2011, 83, .	1.1	151
119	Influence of interference effects on thermoelectric properties of double quantum dots. Physical Review B, 2011, 84, .	1.1	76
120	Frequency dependence of spin pumping in Pt/Y3Fe5O12 film. Journal of Applied Physics, 2011, 109, 116105.	1.1	41
121	Diffusion Thermopower of GaMnAs and MnSi Junctions. Physical Review Letters, 2011, 107, 197201.	2.9	231
122	Boltzmann approach to dissipation produced by a spin-polarized current. Physical Review B, 2011, 83, .	1.1	23
123	Intrinsic Spin-Dependent Thermal Transport. Physical Review Letters, 2011, 107, 216604.	2.9	231
124	Large and inverted spin signals in nonlocal spin valves. Physical Review B, 2011, 83, .	1.1	7
125	Continuous Generation of Spinmotive Force in a Patterned Ferromagnetic Film. Physical Review Letters, 2011, 107, 236602.	2.9	49
126	Spin-Seebeck Effect: A Phonon Driven Spin Distribution. Physical Review Letters, 2011, 106, 186601.	2.9	168
127	Thermopower and resistivity in ferromagnetic thin films near room temperature. Physical Review B, 2011, 83, .	1.1	36
128	Nonlinear spin pumping induced by parametric excitation. Applied Physics Letters, 2011, 99, .	1.5	35
129	Thermoelectric effect of multiferroic oxide interfaces. Applied Physics Letters, 2011, 98, 042110.	1.5	8

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130	Pure spin thermoelectric generator based on a rashba quantum dot molecule. Journal of Applied Physics, 2011, 109, 053712.	1.1	59
131	Thermoelectric Energy Conversion and Ceramic Thermoelectrics. Materials Science Forum, 0, 671, 1-20.	0.3	4
132	Seebeck and Spin Seebeck effect in Gd-doped GaN thin films for Thermoelectric Devices and Applications. Materials Research Society Symposia Proceedings, 2011, 1329, 1.	0.1	1
133	Anomalous transport properties of the half-metallic ferromagnets Co ₂ TiSi, Co ₂ TiGe and Co ₂ TiSn. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 3588-3601.	1.6	54
134	Thermo-Magneto-Electric Currents with Dynamical Magnetization Inhomogeneities. Communications in Theoretical Physics, 2011, 56, 504-512.	1.1	0
135	Thermopower, figure of merit and spin-transfer torque induced by the temperature gradient in planar tunnel junctions. Journal of Physics Condensed Matter, 2011, 23, 456001.	0.7	11
136	Spin Pumping in a Ferromagnetic/Nonmagnetic/Spin-Sink Trilayer Film: Spin Current Termination. Key Engineering Materials, 0, 508, 266-270.	0.4	11
137	Thermal spin-accumulation. , 2012, , .		1
138	Suppression of Spin Pumping in the Presence of Thin Titanium Interlayer. Key Engineering Materials, 2012, 508, 347-352.	0.4	1
139	Spin Hall Effect in Superconductors. Japanese Journal of Applied Physics, 2012, 51, 010110.	0.8	8
140	Amplification of spin waves by the spin Seebeck effect. Journal of Applied Physics, 2012, 111, 07D504.	1.1	7
141	Scaling fit of spin pumping in various ferromagnetic materials. Journal of Applied Physics, 2012, 111, 07C502.	1.1	3
142	Thermal artifact on the spin Seebeck effect in metallic thin films deposited on MgO substrates. Journal of Applied Physics, 2012, 111, .	1.1	11
143	Onsager relations in coupled electric, thermoelectric, and spin transport: The tenfold way. Physical Review B, 2012, 86, .	1.1	87
144	All-oxide system for spin pumping. Applied Physics Letters, 2012, 100, 022402.	1.5	31
145	Spin Caloritronics in Noncondensed Bose Gases. Physical Review Letters, 2012, 108, 075301.	2.9	6
146	Spin thermopower in interacting quantum dots. Physical Review B, 2012, 85, .	1.1	78
147	Spin Pumping with Coherent Elastic Waves. Physical Review Letters, 2012, 108, 176601.	2.9	203

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148	Control of Ferromagnetic Relaxation in Magnetic Thin Films through Thermally Induced Interfacial Spin Transfer. <i>Physical Review Letters</i> , 2012, 108, 257202.	2.9	48
149	Low-damping spin-wave propagation in a micro-structured $\text{Co}_{2.0}\text{Mn}_{0.6}\text{Fe}_{0.4}\text{Si}$ Heusler waveguide. <i>Applied Physics Letters</i> , 2012, 100, 112402.	1.5	80
150	A single-spin-current thermal generator. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	5
151	Nanoscale temperature sensing using the Seebeck effect. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	27
152	Local Charge and Spin Currents in Magnetothermal Landscapes. <i>Physical Review Letters</i> , 2012, 108, 106602.	2.9	225
153	Tunable charge and spin Seebeck effects in magnetic molecular junctions. <i>Physical Review B</i> , 2012, 86, .	1.1	25
154	Thermally driven unipolar and bipolar spin diode based on double quantum dots. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	4
155	Theory of thermal spin-charge coupling in electronic systems. <i>Physical Review B</i> , 2012, 85, .	1.1	33
156	Seebeck Rectification Enabled by Intrinsic Thermoelectrical Coupling in Magnetic Tunneling Junctions. <i>Physical Review Letters</i> , 2012, 109, 037206.	2.9	45
157	Thermoelectric Detection of Ferromagnetic Resonance of a Nanoscale Ferromagnet. <i>Physical Review Letters</i> , 2012, 108, 167602.	2.9	17
158	Thermal spin current and magnetothermopower by Seebeck spin tunneling. <i>Physical Review B</i> , 2012, 85, .	1.1	37
159	Generating and reversing spin accumulation by temperature gradient in a quantum dot attached to ferromagnetic leads. <i>Chinese Physics B</i> , 2012, 21, 077301.	0.7	6
160	Thermospin effects in parallel coupled double quantum dots in the presence of the Rashba spin-orbit interaction and Zeeman splitting. <i>Chinese Physics B</i> , 2012, 21, 037201.	0.7	9
161	Nonlocal tunnel magnetoresistance and thermal rectification effect in a nanoscale three-terminal junction. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 495304.	0.7	0
162	Spin-Selective Transport of Electron in a Quantum Dot under Magnetic Field. <i>Chinese Physics Letters</i> , 2012, 29, 107302.	1.3	5
163	Spin separation in a quantum dot ring driven by a temperature bias. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	1
164	Acoustic spin pumping: Direct generation of spin currents from sound waves in $\text{Pt}/\text{Y}_3\text{Fe}_5\text{O}_{12}$ hybrid structures. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	30
165	Spin-Heat Vision. <i>Physics Magazine</i> , 2012, 5, .	0.1	0

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166	Magnon-drag thermopile. , 2012, , .		0
167	Observation of the Planar Nernst Effect in Permalloy and Nickel Thin Films with In-Plane Thermal Gradients. Physical Review Letters, 2012, 109, 196602.	2.9	120
168	Thermoelectric Detection of Spin Waves. Physical Review Letters, 2012, 109, 237204.	2.9	27
169	Giant magneto-thermal conductivity in magnetic multilayers. IEEE Transactions on Magnetics, 2012, 48, 3031-3034.	1.2	12
170	Spin-current-driven thermoelectric coating. Nature Materials, 2012, 11, 686-689.	13.3	248
171	A proposal for time-dependent pure-spin-current generators. Applied Physics Letters, 2012, 101, 213109.	1.5	25
172	Thermal equilibration and thermally induced spin currents in a thin-film ferromagnet on a substrate. Physical Review B, 2012, 85, .	1.1	6
173	Investigation of induced Pt magnetic polarization in Pt/Y3Fe5O12 bilayers. Applied Physics Letters, 2012, 101, .	1.5	113
174	Large enhancement of thermoelectric effects in a double quantum dot system due to interference and Coulomb correlation phenomena. Physical Review B, 2012, 85, .	1.1	177
175	HeiÄŸe Elektronik. Physik in Unserer Zeit, 2012, 43, 288-295.	0.0	1
176	Thermal spin transport and applications. , 2012, , .		1
177	Determination of spin-dependent Seebeck coefficients of CoFeB/MgO/CoFeB magnetic tunnel junction nanopillars. Journal of Applied Physics, 2012, 111, .	1.1	38
178	Unidirectional Thermal Effects in Current-Induced Domain Wall Motion. Physical Review Letters, 2012, 109, 106601.	2.9	60
179	Anomalous Nernst Effect in an L1\$_{0}\$-Ordered Epitaxial FePt Thin Film. Applied Physics Express, 2012, 5, 093002.	1.1	93
180	Optical studies of ballistic currents in semiconductors [Invited]. Journal of the Optical Society of America B: Optical Physics, 2012, 29, A43.	0.9	11
181	Spin Hall and spin Nernst effects in graphene with intrinsic and Rashba spin-orbit interactions. Chinese Physics B, 2012, 21, 117309.	0.7	3
182	Giant spin Seebeck effect in a non-magnetic material. Nature, 2012, 487, 210-213.	13.7	164
183	Thermally driven pure spin current through mesoscopic ferromagnetic semimetal-normal metal junctions. European Physical Journal B, 2012, 85, 1.	0.6	2

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184	Determining the planar Nernst effect from magnetic-field-dependent thermopower and resistance in nickel and permalloy thin films. <i>Physical Review B</i> , 2012, 86, .	1.1	44
185	The spin Hall effect as a probe of nonlinear spin fluctuations. <i>Nature Communications</i> , 2012, 3, 1058.	5.8	33
186	Spin current injection by spin Seebeck and spin pumping effects in yttrium iron garnet/Pt structures. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	15
187	Heat and spin transport in a cold atomic Fermi gas. <i>Physical Review A</i> , 2012, 86, .	1.0	15
188	Nanoscale spin wave valve and phase shifter. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	83
189	Transport Magnetic Proximity Effects in Platinum. <i>Physical Review Letters</i> , 2012, 109, 107204.	2.9	434
190	Thickness dependence of spin pumping at YIG/Pt interface. , 2012, , .		5
191	Temperature gradient assisted magnetodynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 3386-3391.	0.9	2
192	Evidences for direct magnetic patterning via diffusive transformations using femtosecond laser interferometry. <i>Applied Physics Letters</i> , 2012, 101, 132408.	1.5	14
193	Vortex core magnetization dynamics induced by thermal excitation. <i>Applied Physics Letters</i> , 2012, 100, 112404.	1.5	14
194	Thermoelectric transport in the three terminal quantum dot. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 335303.	0.7	23
195	Enhancement of Spin-Seebeck Voltage by Spin-Hall Thermopile. <i>Applied Physics Express</i> , 2012, 5, 093001.	1.1	47
196	Spin thermopower and thermoconductance in a ferromagnetic graphene nanoribbon. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 385302.	0.7	16
197	Electrically-Generated Pure Spin Current in Graphene. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 08KA01.	0.8	1
198	Spin-dependent Seebeck coefficients of Ni ₈₀ Fe ₂₀ and Co in nanopillar spin valves. <i>Physical Review B</i> , 2012, 86,	1.1	69
199	Quaternary Heusler compounds Co ₂ XRhMnZ (Z = Ga, Sn, Sb): crystal structure, electronic structure, and magnetic properties. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 046001.	0.7	29
200	Thermal spin power without magnets. <i>Nature</i> , 2012, 487, 180-181.	13.7	5
201	Spin-dependent thermoelectric transport through double quantum dots. <i>Chinese Physics B</i> , 2012, 21, 117310.	0.7	9

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202	Large spin figure of merit in a double quantum dot coupled to noncollinear ferromagnetic electrodes. Journal of Physics Condensed Matter, 2012, 24, 265301.	0.7	31
203	Giant spin-dependent thermoelectric effect in magnetic tunnel junctions. Nature Communications, 2012, 3, 744.	5.8	111
204	Enhanced spin figure of merit in a Rashba quantum dot ring connected to ferromagnetic leads. Journal of Applied Physics, 2012, 111, .	1.1	16
205	Spin-dependent Seebeck effect in non-local spin valve devices. Applied Physics Letters, 2012, 100, .	1.5	54
206	Magnon-drag thermopile. Nature Materials, 2012, 11, 199-202.	13.3	82
207	Spin Hall effect devices. Nature Materials, 2012, 11, 382-390.	13.3	425
208	New moves of the spintronics tango. Nature Materials, 2012, 11, 368-371.	13.3	249
209	Geometry dependence on inverse spin Hall effect induced by spin pumping in Ni ₈₁ Fe ₁₉ /Pt films. Physical Review B, 2012, 85, .	1.1	194
210	Extrinsic Spin Nernst Effect from First Principles. Physical Review Letters, 2012, 109, 026601.	2.9	63
211	Theory of laser-induced ultrafast superdiffusive spin transport in layered heterostructures. Physical Review B, 2012, 86, .	1.1	224
212	Direct observation of the spin-dependent Peltier effect. Nature Nanotechnology, 2012, 7, 166-168.	15.6	187
213	Nonlinear detection of spin currents in graphene with non-magnetic electrodes. Nature Physics, 2012, 8, 313-316.	6.5	46
214	Thermal spin pumping and magnon-phonon-mediated spin-Seebeck effect. Journal of Applied Physics, 2012, 111, .	1.1	140
215	Thermomagnetic Properties Improved by Self-Organized Flower-Like Phase Separation of Ferromagnetic Co ₂ Dy _{0.5} Mn _{0.5} Sn. Advanced Functional Materials, 2012, 22, 1822-1826.	7.8	8
216	Enhancement of Thermopower of TAGS High-Performance Thermoelectric Material by Doping with the Rare Earth Dy. Advanced Functional Materials, 2012, 22, 2766-2774.	7.8	81
217	Intrinsic contribution to spin Hall and spin Nernst effects in a bilayer graphene. Journal of Physics Condensed Matter, 2012, 24, 275302.	0.7	15
218	Interference-mediated modulation of spin waves. Physical Review B, 2012, 85, .	1.1	17
219	Power output and efficiency of quantum dot attached to ferromagnetic electrodes with non-collinear magnetic moments. Journal of Magnetism and Magnetic Materials, 2012, 324, 1516-1522.	1.0	9

#	ARTICLE	IF	CITATIONS
220	Temperature-controllable spin-polarized current and spin polarization in a Rashba three-terminal double-quantum-dot device. Chinese Physics B, 2013, 22, 057306.	0.7	3
221	Landau-Lifshitz theory of the longitudinal spin Seebeck effect. Physical Review B, 2013, 88, .	1.1	143
222	Band gaps and transmission spectra in generalized Fibonacci $f(p, q)$ one-dimensional magnonic quasicrystals. Journal of Physics Condensed Matter, 2013, 25, 286002.	0.7	20
223	Spin-relaxation modulation and spin-pumping control by transverse spin-wave spin current in Y3Fe5O12. Applied Physics Letters, 2013, 103, 052404.	1.5	7
224	Thermal imaging of standing spin waves. Applied Physics Letters, 2013, 103, 052410.	1.5	7
225	Time-resolved measurement of the tunnel magneto-Seebeck effect in a single magnetic tunnel junction. Review of Scientific Instruments, 2013, 84, 063905.	0.6	43
226	Thermoelectric and thermospin switch realized by a three-terminal nanojunction. Journal of Applied Physics, 2013, 113, .	1.1	4
227	Inverse Spin Hall Effect in a Ferromagnetic Metal. Physical Review Letters, 2013, 111, 066602.	2.9	265
228	Evidence for a Magnetic Seebeck Effect. Physical Review Letters, 2013, 111, 087205.	2.9	22
229	Linear-response theory of the longitudinal spin Seebeck effect. Journal of the Korean Physical Society, 2013, 62, 1753-1758.	0.3	15
230	Heat and spin. Journal of the Korean Physical Society, 2013, 62, 1985-1989.	0.3	0
231	MgO(001) barrier based magnetic tunnel junctions and their device applications. Science China: Physics, Mechanics and Astronomy, 2013, 56, 29-60.	2.0	28
232	Spintronics in a magnetic quantum dot. Journal of Applied Physics, 2013, 114, 073707.	1.1	3
233	Spin mixing conductance at a well-controlled platinum/yttrium iron garnet interface. Applied Physics Letters, 2013, 103, .	1.5	121
234	Spin heat accumulation and spin-dependent temperatures in nanopillar spin valves. Nature Physics, 2013, 9, 636-639.	6.5	60
235	Direct Measurement of Magnon Temperature: New Insight into Magnon-Phonon Coupling in Magnetic Insulators. Physical Review Letters, 2013, 111, 107204.	2.9	109
236	Hybrid anomalous and planar Nernst effect in permalloy thin films. Physical Review B, 2013, 88, .	1.1	30
237	Magnetic-texture-controlled transverse spin injection. Physical Review B, 2013, 88, .	1.1	6

#	ARTICLE	IF	CITATIONS
238	Thermoelectric effects in silicene nanoribbons. Physical Review B, 2013, 88, .	1.1	120
239	Hybrid magnetoresistance in the proximity of a ferromagnet. Physical Review B, 2013, 87, .	1.1	90
240	Induced magneto-transport properties at palladium/yttrium iron garnet interface. Applied Physics Letters, 2013, 103, .	1.5	41
241	Thermo-electric effect in a nano-sized crossed Permalloy/Cu junction under high bias current. Applied Physics Letters, 2013, 103, 132408.	1.5	13
242	Spin Hall Effects in Metals. IEEE Transactions on Magnetics, 2013, 49, 5172-5193.	1.2	927
243	Theory of asymmetric and negative differential magnon tunneling under temperature bias: Towards a spin Seebeck diode and transistor. Physical Review B, 2013, 88, .	1.1	44
244	Magnon, phonon, and electron temperature profiles and the spin Seebeck effect in magnetic insulator/normal metal hybrid structures. Physical Review B, 2013, 88, .	1.1	179
245	Dynamics of an Insulating Skyrmion under a Temperature Gradient. Physical Review Letters, 2013, 111, 067203.	2.9	236
246	Spin-Wave Spin Current in Magnetic Insulators. Solid State Physics, 2013, , 1-27.	1.3	12
247	Charge, Spin, and Heat Transport in the Proximity of Metal/Ferromagnet Interface. Solid State Physics, 2013, 64, 53-82.	1.3	3
248	Control of Pure Spin Current by Magnon Tunneling and Three-Magnon Splitting in Insulating Yttrium Iron Garnet Films. Solid State Physics, 2013, 64, 83-122.	1.3	2
249	Experimental Test of the Spin Mixing Interface Conductivity Concept. Physical Review Letters, 2013, 111, 176601.	2.9	268
250	Spin Pumping and Spin Currents in Magnetic Insulators. Solid State Physics, 2013, 64, 123-156.	1.3	11
251	Transverse Spin Seebeck Effect versus Anomalous and Planar Nernst Effects in Permalloy Thin Films. Physical Review Letters, 2013, 111, 187201.	2.9	127
252	Giant enhancement of spin pumping efficiency using Fe_3Si ferromagnet. Physical Review B, 2013, 88, .	1.1	33
253	Fokker-Planck approach to the theory of the magnon-driven spin Seebeck effect. Physical Review B, 2013, 88, .	1.1	32
254	Proposal for a local heating driven spin current generator. Applied Physics Letters, 2013, 103, .	1.5	7
255	Influence of ferromagnetic ordering on Raman scattering in CoS_2 . Physical Review B, 2013, 88, .	1.1	3

#	ARTICLE	IF	CITATIONS
256	The electron-phonon interaction from fundamental local gauge symmetries in solids. Journal of Physics A: Mathematical and Theoretical, 2013, 47, 035004.	0.7	3
257	Spin Seebeck effect in antiferromagnets and compensated ferrimagnets. Physical Review B, 2013, 87, .	1.1	117
258	Influence of heat flow directions on Nernst effects in Py/Pt bilayers. Physical Review B, 2013, 88, .	1.1	55
259	Thermal gradient driven enhancement of pure spin current at room temperature in nonlocal spin transport devices. Physical Review B, 2013, 88, .	1.1	4
260	Spin Wave Excitation and Propagation Properties in a Permalloy Film. Japanese Journal of Applied Physics, 2013, 52, 083001.	0.8	24
261	Sound wave excitation of spin current. Low Temperature Physics, 2013, 39, 39-42.	0.2	0
262	Thermal spin current through a double quantum dot molecular junction in the Coulomb blockade regime. Journal of Applied Physics, 2013, 114, 144309.	1.1	10
263	Half-metallic perovskite superlattices with colossal thermoelectric figure of merit. Journal of Materials Chemistry A, 2013, 1, 8406.	5.2	12
264	Spin Current: Experimental and Theoretical Aspects. Journal of the Physical Society of Japan, 2013, 82, 102002.	0.7	93
265	Thermopower and thermoconductance properties of zigzag edged graphene nanoribbon based thermoelectric module. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1486-1490.	0.9	3
266	Space- and time-resolved Seebeck and Nernst voltages in laser-heated permalloy/gold microstructures. Applied Physics Letters, 2013, 102, 052408.	1.5	23
267	Spin Waves, Spin Currents and Spin Seebeck Effect. Topics in Applied Physics, 2013, , 119-128.	0.4	1
268	Local Excitation of Magnetostatic Modes in YIG. IEEE Transactions on Magnetics, 2013, 49, 1055-1059.	1.2	8
269	Thermally driven spin and charge currents in thin NiFe ₂ O ₄ /Pt films. Physical Review B, 2013, 87, .	1.1	105
270	Photon-assisted thermoelectric properties of noncollinear spin valves. Physical Review B, 2013, 87, .	1.1	38
271	Prediction of a Linear Spin Bulk Photovoltaic Effect in Antiferromagnets. Physical Review Letters, 2013, 110, 057201.	2.9	43
272	All-metal lateral spin valve operated by spin pumping. Physical Review B, 2013, 87, .	1.1	15
273	Longitudinal spin Seebeck effect in various garnet ferrites. Physical Review B, 2013, 87, .	1.1	101

#	ARTICLE	IF	CITATIONS
274	Enhancement of spin wave excitation by spin currents due to thermal gradient and spin pumping in yttrium iron garnet/Pt. Applied Physics Letters, 2013, 102, .	1.5	23
275	Observation of the spin Seebeck effect in epitaxial Fe ₃ O ₄ thin films. Applied Physics Letters, 2013, 102, .	1.5	163
276	Nanoengineering thermoelectrics for 21st century: Energy harvesting and other trends in the field. Renewable and Sustainable Energy Reviews, 2013, 24, 288-305.	8.2	243
277	Unidirectional spin-wave heat conveyer. Nature Materials, 2013, 12, 549-553.	13.3	125
278	Thermoelectric effects in a quantum dot coupled to ferromagnetic leads and subject to microwave fields. Journal of Applied Physics, 2013, 113, 143709.	1.1	10
279	Pt Magnetic Polarization on $Y_3Fe_5O_{12}$ and Magnetotransport Characteristics. Physical Review Letters, 2013, 110, 147207.	2.95	200
280	Pure spin current in a double quantum dot device generated by thermal bias. Journal of Applied Physics, 2013, 113, .	1.1	18
281	New Heusler Compounds and Their Properties. , 2013, , 15-43.		6
282	Spectral non-uniform temperature and non-local heat transfer in the spin Seebeck effect. Nature Communications, 2013, 4, 1945.	5.8	37
283	Theory of spin Hall magnetoresistance. Physical Review B, 2013, 87, .	1.1	615
284	Spin Seebeck Effect and Thermal Colossal Magnetoresistance in Graphene Nanoribbon Heterojunction. Scientific Reports, 2013, 3, 1380.	1.6	74
285	Phonon-Magnon Interaction in Low Dimensional Quantum Magnets Observed by Dynamic Heat Transport Measurements. Physical Review Letters, 2013, 110, 147206.	2.9	32
286	Spin injection from Heusler alloys into semiconductors: A materials perspective. Journal of Applied Physics, 2013, 113, 191101.	1.1	127
287	A new magnetocaloric refrigeration principle with solid-state thermoelectric thermal diodes. Applied Thermal Engineering, 2013, 58, 1-10.	3.0	67
288	Thermally induced spin polarization of a two-dimensional electron gas. Physical Review B, 2013, 87, .	1.1	29
289	Mechanical generation of spin current by spin-rotation coupling. Physical Review B, 2013, 87, .	1.1	114
290	Spin thermoelectric effects in Rashba quantum dots system. Solid State Communications, 2013, 159, 98-101.	0.9	4
291	Effects of mechanical rotation and vibration on spin currents. Journal of the Korean Physical Society, 2013, 62, 1404-1409.	0.3	3

#	ARTICLE	IF	CITATIONS
292	Giant intrinsic thermomagnetic effects in thin MgO magnetic tunnel junctions. Applied Physics Letters, 2013, 102, 212413.	1.5	21
293	Quantitative study of the spin Hall magnetoresistance in ferromagnetic insulator/normal metal hybrids. Physical Review B, 2013, 87, .	1.1	422
294	<i>Ab initio</i> studies of the tunneling magneto-Seebeck effect: Influence of magnetic material. Physical Review B, 2013, 87, .	1.1	29
295	Theory of the spin Seebeck effect. Reports on Progress in Physics, 2013, 76, 036501.	8.1	374
296	Spin-dependent thermoelectric effects in graphene-based spin valves. Nanoscale, 2013, 5, 200-208.	2.8	64
297	Direct Imaging of Thermally Driven Domain Wall Motion in Magnetic Insulators. Physical Review Letters, 2013, 110, 177202.	2.9	124
298	Spin Backflow and ac Voltage Generation by Spin Pumping and the Inverse Spin Hall Effect. Physical Review Letters, 2013, 110, 217602.	2.9	191
299	Giant spin thermoelectric efficiency in ferromagnetic graphene nanoribbons with antidots. Physical Review B, 2013, 88, .	1.1	52
300	Insensitivity of tunneling anisotropic magnetoresistance to non-magnetic electrodes. Applied Physics Letters, 2013, 103, 202403.	1.5	6
301	Non-magnetic doping induced a high spin-filter efficiency and large spin Seebeck effect in zigzag graphene nanoribbons. Journal of Materials Chemistry C, 2013, 1, 8046.	2.7	44
302	Thermally induced spin transport in two-dimensional ferromagnetic gapped graphene. Europhysics Letters, 2013, 101, 57008.	0.7	5
303	Intrinsic Spin Seebeck Effect in Au/YIG . Physical Review Letters, 2013, 110, 067206.	2.9	246
304	Spin current rectification in the presence of spin flip in a quantum dot using temperature bias. Physica Status Solidi (B): Basic Research, 2013, 250, 128-133.	0.7	2
305	Transport equations of energy for ferromagnetic insulators in contact with electrodes. Journal of Physics Condensed Matter, 2013, 25, 366003.	0.7	1
306	Semiconductors for thermoelectric and spin-thermal solid-state energy conversion. , 2013, , .		0
307	Spin current-induced by a sound wave. Journal of the Acoustical Society of America, 2013, 133, 1894-1896.	0.5	4
308	Magneto-thermopower and magnetoresistance of single Co-Ni alloy nanowires. Applied Physics Letters, 2013, 103, .	1.5	68
309	Thermopower switching by magnetic field: First-principles calculations. Physical Review B, 2013, 88, .	1.1	3

#	ARTICLE	IF	CITATIONS
310	Current heating induced spin Seebeck effect. Applied Physics Letters, 2013, 103, .	1.5	82
311	Longitudinal Spin Seebeck Effect Free from the Proximity Nernst Effect. Physical Review Letters, 2013, 110, 067207.	2.9	279
312	Determination of the Pt spin diffusion length by spin-pumping and spin Hall effect. Applied Physics Letters, 2013, 103, .	1.5	141
313	Spin thermoelectrics in a disordered Fermi gas. Physical Review B, 2013, 87, .	1.1	16
314	Predicted rectification and negative differential spin Seebeck effect at magnetic interfaces. Physical Review B, 2013, 88, .	1.1	55
315	The Nernst spin effect in a two-dimensional electron gas. Low Temperature Physics, 2013, 39, 957-960.	0.2	3
316	Transverse thermoelectric effects in platinum strips on permalloy films. Physical Review B, 2013, 88, .	1.1	20
317	Cross-plane thermoelectric transport in p-type La _{0.67} Sr _{0.33} MnO ₃ /LaMnO ₃ oxide metal/semiconductor superlattices. Journal of Applied Physics, 2013, 113, 193702.	1.1	16
318	Spin thermoelectric effects in Kondo quantum dots coupled to ferromagnetic leads. Physical Review B, 2013, 88, .	1.1	48
319	Anomalous Nernst-Ettingshausen effect in nonlocal spin valve measurement under high-bias current injection. Physical Review B, 2013, 87, .	1.1	25
320	Thermal creation of electron spin polarization in n-type silicon. Applied Physics Letters, 2013, 103, .	1.5	10
321	Separation of longitudinal spin Seebeck effect from anomalous Nernst effect: Determination of origin of transverse thermoelectric voltage in metal/insulator junctions. Physical Review B, 2013, 88, .	1.1	126
322	Extraordinary hall balance. Scientific Reports, 2013, 3, 2087.	1.6	30
323	Anisotropy of spin relaxation and transverse transport in metals. Journal of Physics Condensed Matter, 2013, 25, 163201.	0.7	22
324	Report on the Seventh U.S.â€“Japan Joint Seminar on Nanoscale Transport Phenomenaâ€“ Science and Engineering. Nanoscale and Microscale Thermophysical Engineering, 2013, 17, 25-49.	1.4	1
325	Optically Assisted Thermoelectric and Thermospin Effect in a Quantum Dot Structure. Journal of the Physical Society of Japan, 2013, 82, 014603.	0.7	4
327	Magneto-Seebeck effect in spin-valve with in-plane thermal gradient. AIP Advances, 2014, 4, .	0.6	13
328	Generation of pure spin currents via spin Seebeck effect in self-biased hexagonal ferrite thin films. Applied Physics Letters, 2014, 105, .	1.5	32

#	ARTICLE	IF	CITATIONS
329	Preparation of poly(3,4-ethylenedioxythiophene)-poly(styrenesulfonate)/Fe ₃ O ₄ nanocomposite film and its thermoelectric performance. Journal of Composite Materials, 2014, 48, 2793-2801.	1.2	9
330	Thermocouple Psychrometers. , 2014, , 311-331.		0
331	External magnetic field on the thermoelectric and thermospin effect in a quantum dot. Physica Scripta, 2014, 89, 085701.	1.2	5
332	Thermoelectricity and disorder of FeCo/MgO/FeCo magnetic tunnel junctions. Physical Review B, 2014, 90, .	1.1	18
333	Efficient thermal spin injection using CoFeAl nanowire. NPG Asia Materials, 2014, 6, e127-e127.	3.8	52
334	Interplay of spin-orbit torque and thermoelectric effects in ferromagnet/normal-metal bilayers. Physical Review B, 2014, 90, .	1.1	304
336	Phonon-magnon resonant processes with relevance to acoustic spin pumping. Physical Review B, 2014, 90, .	1.1	6
337	Theory of coupled spin-charge transport due to spin-orbit interaction in inhomogeneous two-dimensional electron liquids. Physical Review B, 2014, 90, .	1.1	42
338	Enhanced spin Seebeck effect in a germanene p-n junction. Journal of Applied Physics, 2014, 116, .	1.1	9
339	Orbital caloritronic transport in strongly interacting quantum dots. New Journal of Physics, 2014, 16, 015003.	1.2	10
340	Thermoelectric Transport through the Double Quantum Dot in the Sequential Tunneling Regime. Acta Physica Polonica A, 2014, 126, 1159-1162.	0.2	3
341	Model for the spin-dependent Seebeck coefficient of InSb in a magnetic field. Physical Review B, 2014, 90, .	1.1	3
342	Spin transport with dispersive traps: Narrowing of the Hanle curve. Physical Review B, 2014, 90, .	1.1	5
343	Heat-driven spin transport in a ferromagnetic metal. Applied Physics Letters, 2014, 105, .	1.5	18
344	Nontrivial spin structure of graphene on Pt(111) at the Fermi level due to spin-dependent hybridization. Physical Review B, 2014, 90, .	1.1	38
345	Spin current generation from sputtered Y3Fe5O12 films. Journal of Applied Physics, 2014, 116, .	1.1	52
346	Generation and coherent control of pure spin currents via terahertz pulses. Applied Physics Letters, 2014, 104, 162409.	1.5	2
347	Ultrafast time-resolved magneto-optical imaging of all-optical switching in GdFeCo with femtosecond time-resolution and a 1/4m spatial-resolution. Review of Scientific Instruments, 2014, 85, 063702.	0.6	37

#	ARTICLE	IF	CITATIONS
348	Quantitative Temperature Dependence of Longitudinal Spin Seebeck Effect at High Temperatures. Physical Review X, 2014, 4, .	2.8	71
349	Dissipation due to pure spin-current generated by spin pumping. Physical Review B, 2014, 90, .	1.1	16
350	Spin and charge thermopower of resonant tunneling diodes. Applied Physics Letters, 2014, 104, .	1.5	6
351	Antiferromagnetic Spin Transport from $Y_3Fe_5O_{12}$ structure. Applied Physics Letters, 2014, 105, 072407.	2.9	273
352	Enhanced anisotropic magnetoresistance in Pt/Fe structure. Physical Review B, 2014, 90, .	1.1	30
353	Joule heating-induced coexisted spin Seebeck effect and spin Hall magnetoresistance in the platinum/Y ₃ Fe ₅ O ₁₂ structure. Applied Physics Letters, 2014, 105, 182403.	1.5	16
354	Microwave-induced spin currents in ferromagnetic-insulator normal-metal bilayer system. Applied Physics Letters, 2014, 105, .	1.5	27
355	Tunneling anisotropic thermopower and Seebeck effects in magnetic tunnel junctions. Physical Review B, 2014, 90, .	1.1	12
356	Dual function armchair graphene nanoribbon-based spin-photodetector: Optical spin-valve and light helicity detector. Applied Physics Letters, 2014, 105, 072407.	1.5	19
357	Anomalous Nernst effect of Fe ₃ O ₄ single crystal. Physical Review B, 2014, 90, .	1.1	100
358	Tunable thermoelectricity in monolayers of MoS ₂ and other group-VI dichalcogenides. New Journal of Physics, 2014, 16, 115003.	1.2	25
359	Absence of thermospin current response of a spin-orbit-coupled two-dimensional electron gas. Physical Review B, 2014, 89, .	1.1	6
360	Spin-resolved Fano resonances induced large spin Seebeck effects in graphene-carbon-chain junctions. Applied Physics Letters, 2014, 104, 242412.	1.5	29
361	Temperature dependent spin transport properties of platinum inferred from spin Hall magnetoresistance measurements. Applied Physics Letters, 2014, 104, .	1.5	84
362	Exciton Seebeck effect in molecular systems. Journal of Chemical Physics, 2014, 141, 054105.	1.2	6
363	Optical conductivity of a two-dimensional electron gas with Rashba and Dresselhaus spin-orbit coupling. Proceedings of SPIE, 2014, , .	0.8	2
364	Thermoelectric Phenomena in a Quantum Dot Attached to Ferromagnetic Leads in Kondo Regime. Communications in Theoretical Physics, 2014, 62, 417-422.	1.1	1
365	Effect of electron-phonon interactions on Raman line at ferromagnetic ordering. Journal of Experimental and Theoretical Physics, 2014, 119, 579-583.	0.2	1

#	ARTICLE	IF	CITATIONS
366	Physical characteristics and cation distribution of NiFe ₂ O ₄ thin films with high resistivity prepared by reactive co-sputtering. Journal of Applied Physics, 2014, 115, .	1.1	60
367	Abnormal spin-pumping effect at Pt/NiFe interface by an oxidation of ferromagnet. Current Applied Physics, 2014, 14, 1743-1747.	1.1	5
368	Magnetic Properties of Spin Quantum Cross Devices Utilizing Stray Magnetic Fields. Materials Research Society Symposia Proceedings, 2014, 1708, 19.	0.1	2
369	Influence of the substrate on the anomalous Nernst effect of magnetite thin films. Materials Research Society Symposia Proceedings, 2014, 1674, 19.	0.1	0
370	Thermal Bias on the Pumped Spin-Current in a Single Quantum Dot. Communications in Theoretical Physics, 2014, 62, 86-90.	1.1	1
371	A numerical comparison of a parallel-plate AMR and a magnetocaloric device with embodied micro thermoelectric thermal diodes. International Journal of Refrigeration, 2014, 37, 185-193.	1.8	22
372	Galvanomagnetic and thermogalvanomagnetic transport effects in ferromagnetic fcc Co from first principles. Physical Review B, 2014, 89, .	1.1	1
373	Propagation of thermally induced magnonic spin currents. Physical Review B, 2014, 89, .	1.1	71
374	Predicted Very Large Thermoelectric Effect in Ferromagnet-Superconductor Junctions in the Presence of a Spin-Splitting Magnetic Field. Physical Review Letters, 2014, 112, 057001.	2.9	143
375	Preparation and Enhanced Thermoelectric Properties of p-Type BaFe ₁₂ O ₁₉ /CeFe ₃ CoSb ₁₂ Magnetic Nanocomposite Materials. Journal of Electronic Materials, 2014, 43, 1498-1504.	1.0	2
376	Magnon spin-current theory for the longitudinal spin-Seebeck effect. Physical Review B, 2014, 89, .	1.1	253
377	Thermoelectric effects in graphene with local spin-orbit interaction. Physical Review B, 2014, 89, .	1.1	28
378	Competing spin pumping effects in magnetic hybrid structures. Applied Physics Letters, 2014, 104, 052402.	1.5	30
379	Anisotropic spin-dependent thermopower and current in ferromagnetic graphene junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 73-76.	0.9	5
380	Spin-Seebeck like signal in ferromagnetic bulk metallic glass without platinum contacts. Solid State Communications, 2014, 198, 40-44.	0.9	12
381	Spin caloritronics in graphene. Solid State Communications, 2014, 191, 30-34.	0.9	5
382	Perfect spin filtering and large spin thermoelectric effects in organic transition-metal molecular junctions. Physical Chemistry Chemical Physics, 2014, 16, 11349.	1.3	32
383	Magnetoelastic modes and lifetime of magnons in thin yttrium iron garnet films. Physical Review B, 2014, 89, .	1.1	99

#	ARTICLE	IF	CITATIONS
384	Tuning of the spin pumping in yttrium iron garnet/Au bilayer system by fast thermal treatment. Journal of Applied Physics, 2014, 115, 17C511.	1.1	4
385	Investigation of magnetic proximity effect in Ta/YIG bilayer Hall bar structure. Journal of Applied Physics, 2014, 115, 17C509.	1.1	32
386	Thermal spin-transfer torque in magnetic tunnel junctions (invited). Journal of Applied Physics, 2014, 115, .	1.1	18
387	Spin-dependent thermoelectric effect in polaronic Kondo transport through a Rashba quantum dot coupled with ferromagnetic leads. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1854-1866.	0.9	8
388	The first decade of organic spintronics research. Chemical Communications, 2014, 50, 1781-1793.	2.2	167
389	GMR, TMR, BMR, and Related Phenomena. , 2014, , 15-106.		3
390	Designing a Spin-Seebeck Diode. Physical Review Letters, 2014, 112, 047203.	2.9	51
391	Extrinsic spin Hall effects measured with lateral spin valve structures. Physical Review B, 2014, 89, .	1.1	96
392	Spin-current Seebeck effect in quantum dot systems. Journal of Physics Condensed Matter, 2014, 26, 045302.	0.7	11
393	Spin transport parameters in $\text{Ni}_{80}\text{Fe}_{20}\text{Ru}$ and $\text{Ni}_{80}\text{Fe}_{20}\text{Ru}$		36
394	Spin thermopower in interacting Rashba dots. European Physical Journal B, 2014, 87, 1.	0.6	1
395	Significant modulation of electrical spin accumulation by efficient thermal spin injection. Physical Review B, 2014, 90, .	1.1	15
396	Thermally driven magnetic precession in spin valves. Physical Review B, 2014, 90, .	1.1	3
397	Antiferromagnet-controlled spin current transport in SrMnO_3		1
398	Spin Hall magnetoresistance at Pt/CoFe ₂ O ₄ interfaces and texture effects. Applied Physics Letters, 2014, 105, .	1.5	105
399	Spin-dependent thermoelectronic transport of a single molecule magnet Mn(dmit) ₂ . Journal of Chemical Physics, 2014, 140, 204707.	1.2	13
400	Observation of the inverse spin Hall effect in ZnO thin films: An all-electrical approach to spin injection and detection. Applied Physics Letters, 2014, 104, 122402.	1.5	9
401	Generation of adjustable pure spin currents in negative-U systems. Frontiers of Physics, 2014, 9, 477-482.	2.4	1

#	ARTICLE	IF	CITATIONS
402	Magnon thermal mean free path in yttrium iron garnet. <i>Physical Review B</i> , 2014, 90, .	1.1	136
403	Anomalous and planar Nernst effects in thin films of the half-metallic ferromagnet $\text{La}_{1-x}\text{Mn}_x\text{O}_2$. <i>Physical Review B</i> , 2014, 90, .	1.1	26
404	Thermoelectric effects and magnetic anisotropy of GaMnO_1 films. <i>Physical Review B</i> , 2014, 90, .	1.1	26
405	Enhanced thermoelectric efficiency in ferromagnetic silicene nanoribbons terminated with hydrogen atoms. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 12900-12908.	1.3	35
406	Thermospin diode effect based on a quantum dot system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 3638-3641.	0.9	4
407	Temperature-controlled giant thermal magnetoresistance behaviors in doped zigzag-edged silicene nanoribbons. <i>RSC Advances</i> , 2014, 4, 48539-48546.	1.7	21
408	Dynamic phase diagram of dc-pumped magnon condensates. <i>Physical Review B</i> , 2014, 90, .	1.1	51
409	Thermomagnonic diode: Rectification of energy and magnetization currents. <i>Physical Review B</i> , 2014, 89, .	1.1	19
410	Tunable spin Seebeck effect in a double Rashba molecule embedded in an Aharonov-Bohm interferometer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 63, 311-316.	1.3	7
411	Nonlinear spin-thermoelectric transport in two-dimensional topological insulators. <i>Physical Review B</i> , 2014, 90, .	1.1	30
412	Thermal control of the spin pumping damping in ferromagnetic/normal metal interfaces. <i>Physical Review B</i> , 2014, 89, .	1.1	5
413	An Array of Ferromagnetic Nanoislands Nondestructively Patterned <i>via</i> a Local Phase Transformation by Low-Energy Proton Irradiation. <i>ACS Nano</i> , 2014, 8, 4698-4704.	7.3	23
414	A photon-assisted single-spin quantum-dot heat engine. <i>Superlattices and Microstructures</i> , 2014, 75, 334-339.	1.4	0
415	Vacancy Effects on Electric and Thermoelectric Properties of Zigzag Silicene Nanoribbons. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21339-21346.	1.5	41
416	Spin-dependent Seebeck effect and huge growth of thermoelectric parameters at band edges in H- and F-doped graphene, free-standing and deposited on 4 H-SiC(0001) C-face. <i>Carbon</i> , 2014, 80, 255-267.	5.4	12
417	Role of bulk-magnon transport in the temporal evolution of the longitudinal spin-Seebeck effect. <i>Physical Review B</i> , 2014, 89, .	1.1	62
418	All-electrical control of thermal-spin current in a parallel double quantum dot tunneling junction. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 1558-1564.	0.7	0
419	Effects of a NiFe/MgO interface on the thermoelectric transport behavior of spin-polarized electrons. <i>Materials Letters</i> , 2014, 137, 351-353.	1.3	5

#	ARTICLE	IF	CITATIONS
420	Generalized Two-Temperature Model for Coupled Phonon-Magnon Diffusion. Physical Review Letters, 2014, 113, 025902.	2.9	27
421	At full tilt. Nature Physics, 2014, 10, 553-553.	6.5	0
422	Longitudinal spin Seebeck effect: from fundamentals to applications. Journal of Physics Condensed Matter, 2014, 26, 343202.	0.7	178
423	Ultrafast spin-transfer torque driven by femtosecond pulsed-laser excitation. Nature Communications, 2014, 5, 4333.	5.8	156
424	Give it a whirl. Nature Physics, 2014, 10, 552-553.	6.5	13
425	Experimental Investigation of the Nature of the Magnetoresistance Effects in Pd-YIG Hybrid Structures. Physical Review Letters, 2014, 113, 037203.	2.9	74
426	Thermodynamic theory for thermal-gradient-driven domain-wall motion. Physical Review B, 2014, 90, .	1.1	46
427	Thermally driven domain-wall motion in Fe on W(110). Physical Review B, 2014, 90, .	1.1	24
428	Giant room-temperature spin caloritronics in spin-semiconducting graphene nanoribbons. Physical Review B, 2014, 90, .	1.1	85
429	Spin-dependent phenomena and device concepts explored in (Ga,Mn)As. Reviews of Modern Physics, 2014, 86, 855-896.	16.4	141
430	Role of Entropy in Domain Wall Motion in Thermal Gradients. Physical Review Letters, 2014, 113, 097201.	2.9	87
431	Platinum thickness dependence and annealing effect of the spin-Seebeck voltage in platinum/yttrium iron garnet structures. Applied Physics Express, 2014, 7, 093001.	1.1	33
432	Giant magnetoresistance and spin Seebeck coefficient in zigzag $\hat{1}\pm$ -graphyne nanoribbons. Nanoscale, 2014, 6, 11121-11129.	2.8	46
433	Skymionic spin Seebeck effect via dissipative thermomagnonic torques. Physical Review B, 2014, 89, .	1.1	55
434	Spin effects in thermoelectric properties of Al- and P-doped zigzag silicene nanoribbons. Physical Review B, 2014, 89, .	1.1	56
435	Large inverse spin Hall effect in the antiferromagnetic metal IrMn_2O_4 . Physical Review B, 2014, 89, .	1.1	156
436	Recent advances in solution-processed inorganic nanofilm photodetectors. Chemical Society Reviews, 2014, 43, 1400-1422.	18.7	142
437	Fabrication and local laser heating of freestanding Ni ₈₀ Fe ₂₀ bridges with Pt contacts displaying anisotropic magnetoresistance and anomalous Nernst effect. Applied Physics Letters, 2014, 104, .	1.5	7

#	ARTICLE	IF	CITATIONS
438	Spin caloritronics. Energy and Environmental Science, 2014, 7, 885.	15.6	361
439	Spin-caloric transport properties of cobalt nanostructures: Spin disorder effects from first principles. Physical Review B, 2014, 89, .	1.1	10
440	Bias-controlled ultrafast demagnetization in magnetic tunnel junctions. Physical Review B, 2014, 89, .	1.1	12
441	Control of propagating spin waves via spin transfer torque in a metallic bilayer waveguide. Physical Review B, 2014, 89, .	1.1	48
442	Self-consistent determination of spin Hall angles in selected $5d$ metals by thermal spin injection. Physical Review B, 2014, 89, .		87
443	Magnetic properties of metallic thin films. , 2014, , 454-546.		9
444	Anomalous Nernst and Hall effects in magnetized platinum and palladium. Physical Review B, 2014, 89, .	1.1	50
445	Nanoscale Spin Seebeck Rectifier: Controlling Thermal Spin Transport across Insulating Magnetic Junctions with Localized Spin. Physical Review B, 2014, 89, .	1.1	33
446	Phase Stability and Thermoelectric Properties of CuFeS ₂ -Based Magnetic Semiconductor. Journal of Electronic Materials, 2014, 43, 2371-2375.	1.0	55
447	Spin-dependent thermoelectric effects in transport through a nanoscopic junction involving a spin impurity. Physical Review B, 2014, 89, .	1.1	20
448	Scaling of Spin Hall Angle in 3d, 4d, and 5d Metals from Y_3O_{12} to Y_3Co_{12} . Physical Review Letters, 2014, 112, 197201.	2.9	440
449	Anisotropic magnetothermal transport and spin Seebeck effect. Physical Review B, 2014, 89, .	1.1	29
450	Tunneling magnetothermopower in magnetic tunnel junctions. Physical Review B, 2014, 89, .	1.1	13
451	Longitudinal spin current induced by a temperature gradient in a ferromagnetic insulator. Physical Review B, 2014, 90, .	1.1	27
452	Enhanced spin figure of merit in an Aharonov-Bohm ring with a double quantum dot. Journal of Applied Physics, 2014, 115, .	1.1	8
453	Microscopic Theory of the Inverse Edelstein Effect. Physical Review Letters, 2014, 112, 096601.	2.9	224
454	Valley and spin thermoelectric transport in ferromagnetic silicene junctions. Applied Physics Letters, 2014, 104, .	1.5	47
455	Enhanced dc spin pumping into a fluctuating ferromagnet near T_C . Physical Review B, 2014, 89, .		103

#	ARTICLE	IF	CITATIONS
456	Dynamic exchange via spin currents in acoustic and optical modes of ferromagnetic resonance in spin-valve structures. <i>Physical Review B</i> , 2014, 89, .	1.1	18
457	Theory of the acoustic spin pumping. <i>Solid State Communications</i> , 2014, 198, 22-25.	0.9	7
458	Theory of mechanical spin current generation via spin-rotation coupling. <i>Solid State Communications</i> , 2014, 198, 52-56.	0.9	19
459	Theory of mechanical spin current generation via spin-orbit coupling. <i>Solid State Communications</i> , 2014, 198, 57-60.	0.9	5
460	Enhancement of Pure Spin Currents in Spin Pumping Y_3O_{12} Physical Review Applied, 2014, 1, .	1.5	70
462	Future perspectives for spintronic devices. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 193001.	1.3	392
463	The effect of thermal bias on the spin-state manipulation in a quantum dot. <i>Physica B: Condensed Matter</i> , 2014, 450, 30-33.	1.3	0
464	Noise reduction by magnetostatic coupling in geomagnetic-field sensors. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 368, 328-332.	1.0	4
465	Putting a New Spin on Heat Flow. <i>Physics Magazine</i> , 2014, 7, .	0.1	7
466	Anomalous spin and charge Seebeck effect in a quantum well with spin orbit interaction. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
467	Spin-Seebeck thermoelectric converter. , 2014, , .		3
468	Longitudinal Spin Seebeck Effect in Bi-substituted Neodymium Iron Garnet on Gadolinium Gallium Garnet Substrate Prepared by MOD Method. <i>Physics Procedia</i> , 2015, 75, 932-938.	1.2	11
469	Intrinsic surface magnetic anisotropy in Y_3O_{12} as the origin of low-magnetic-field behavior of the spin Seebeck effect. <i>Physical Review B</i> , 2015, 92, .	1.1	10
470	Inverse spin Hall effect in Cr: Independence of antiferromagnetic ordering. <i>Physical Review B</i> , 2015, 92, .	1.1	64
471	Observation of pure inverse spin Hall effect in ferromagnetic metals via ferromagnetic/antiferromagnetic exchange-bias structures. <i>Physical Review B</i> , 2015, 92, .	1.1	38
472	Effect of the magnon dispersion on the longitudinal spin Seebeck effect in yttrium iron garnets. <i>Physical Review B</i> , 2015, 92, .	1.1	111
473	Thermal vector potential theory of magnon-driven magnetization dynamics. <i>Physical Review B</i> , 2015, 92, .	1.1	27
474	Critical suppression of spin Seebeck effect by magnetic fields. <i>Physical Review B</i> , 2015, 92, .	1.1	168

#	ARTICLE	IF	CITATIONS
475	Enhancement of anomalous Nernst effects in metallic multilayers free from proximity-induced magnetism. Physical Review B, 2015, 92, .	1.1	94
476	Wiedemann-Franz law for magnon transport. Physical Review B, 2015, 92, .	1.1	33
477	Magnetothermoelectric power in Co/Pt layered structures: Interface versus bulk contributions. Physical Review B, 2015, 92, .	1.1	7
478	Domain wall magneto-Seebeck effect. Physical Review B, 2015, 92, .	1.1	16
479	Extraordinary Hall resistance and unconventional magnetoresistance in $\text{Pt}/\text{Co}/\text{Pt}$ multilayers. Physical Review B, 2015, 92, .	1.1	16
480	Heat transport between antiferromagnetic insulators and normal metals. Physical Review B, 2015, 92, .	1.1	16
481	Unconventional scaling and significant enhancement of the spin Seebeck effect in multilayers. Physical Review B, 2015, 92, .	1.1	73
482	Magnon instability driven by heat current in magnetic bilayers. Physical Review B, 2015, 92, .	1.1	8
483	Long-range pure magnon spin diffusion observed in a nonlocal spin-Seebeck geometry. Physical Review B, 2015, 92, .	1.1	104
484	Dependence of transverse magnetothermoelectric effects on inhomogeneous magnetic fields. Physical Review B, 2015, 92, .	1.1	13
485	Magnon transport through a quantum dot: Conversion to electronic spin and charge currents. Physical Review B, 2015, 92, .	1.1	8
486	Thermally Driven Pure Spin and Valley Currents via the Anomalous Nernst Effect in Monolayer Group-VI Dichalcogenides. Physical Review Letters, 2015, 115, 246601.	2.9	47
487	Spin transport and spin-caloric effects in $(\text{Cr,Zn})\text{Te}$ half-metallic nanostructures: Effect of spin disorder at elevated temperatures from first principles. Physical Review B, 2015, 91, .	1.1	6
488	Thermoelectric properties of silicene in the topological- and band-insulator states. Physical Review B, 2015, 91, .	1.1	26
489	Landau-Lifshitz theory of thermomagnonic torque. Physical Review B, 2015, 92, .	1.1	35
490	Design for a spin-Seebeck diode based on two-dimensional materials. Physical Review B, 2015, 92, .	1.1	59
491	Energy and magnetization transport in nonequilibrium macrospin systems. Physical Review E, 2015, 92, 012116.	0.8	18
492	Thermoelectric Signal Enhancement by Reconciling the Spin Seebeck and Anomalous Nernst Effects in Ferromagnet/Non-magnet Multilayers. Scientific Reports, 2015, 5, 10249.	1.6	65

#	ARTICLE	IF	CITATIONS
493	Pure spin-Hall magnetoresistance in Rh/Y3Fe5O12 hybrid. Scientific Reports, 2015, 5, 17734.	1.6	25
494	Investigation of epitaxial growth and tunnel magnetoresistance effects in magnetic tunnel junctions including spinel ferrite layers. Japanese Journal of Applied Physics, 2015, 54, 118003.	0.8	27
495	Thermoelectric spin transport through ferromagnetic heterostructures. Low Temperature Physics, 2015, 41, 826-832.	0.2	0
496	Heat dissipation due to ferromagnetic resonance in a ferromagnetic metal monitored by electrical resistance measurement. Applied Physics Letters, 2015, 107, .	1.5	14
497	Enhancement of thermospin effect in germanene based normal/ferromagnetic stub/normal junction. Journal of Applied Physics, 2015, 118, 195101.	1.1	1
498	Material dependence of anomalous Nernst effect in perpendicularly magnetized ordered-alloy thin films. Applied Physics Letters, 2015, 106, .	1.5	86
499	Spectral characteristics of time resolved magnonic spin Seebeck effect. Applied Physics Letters, 2015, 107, .	1.5	24
500	Magnetic field-modulated photo-thermo-electric effect in Fe/GaAs film. Applied Physics Letters, 2015, 107, .	1.5	14
501	Spin effects induced by thermal perturbation in a normal metal/magnetic insulator system. Physical Review B, 2015, 91, .	1.1	12
502	Spin-dependent Seebeck Effect, Thermal Colossal Magnetoresistance and Negative Differential Thermoelectric Resistance in Zigzag Silicene Nanoribbon Heterojunction. Scientific Reports, 2015, 5, 10547.	1.6	46
503	Optically reconfigurable magnetic materials. Nature Physics, 2015, 11, 487-491.	6.5	149
504	Spin pumping and inverse spin Hall effects—Insights for future spin-orbitronics (invited). Journal of Applied Physics, 2015, 117, .	1.1	47
505	Effect of magnetic anisotropy on spin-dependent thermoelectric effects in nanoscopic systems. Physical Review B, 2015, 91, .	1.1	12
506	Interface-assisted magnetoresistance behavior for ultrathin NiFe films. Journal of Magnetism and Magnetic Materials, 2015, 393, 419-422.	1.0	4
507	Thermoelectric properties of zigzag silicene nanoribbons doped with Co impurity atoms. Journal of Magnetism and Magnetic Materials, 2015, 393, 305-309.	1.0	5
508	Spin-crossover molecule based thermoelectric junction. Applied Physics Letters, 2015, 106, .	1.5	21
509	Spin Effects on Heat Current Through a Quantum Dot Attached to Ferromagnetic Leads. Journal of Low Temperature Physics, 2015, 179, 298-309.	0.6	0
510	Critical behavior and magnetocaloric effect in Co ₅₀ ~Ni _x Cr ₂₅ Al ₂₅ (x= 0 and 5) full Heusler alloy system. Journal of Alloys and Compounds, 2015, 644, 930-938.	2.8	20

#	ARTICLE	IF	CITATIONS
511	Tunable half-metallic properties and spin Seebeck effects in zigzag-edged graphene nanoribbons adsorbed with V atom or V-benzene compound. <i>Organic Electronics</i> , 2015, 24, 80-88.	1.4	8
512	Spintronics technology and device development. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 070101.	0.8	28
513	Quantum dot as spin current generator and energy harvester. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	11
514	Spin-dependent Seebeck effect in asymmetric four-terminal systems with Rashba spin-orbit coupling. <i>Europhysics Letters</i> , 2015, 110, 38004.	0.7	1
515	Spin-dependent Seebeck effect and spin caloritronics in magnetic graphene. <i>Physical Review B</i> , 2015, 91, .	1.1	60
516	Thermoelectric effects in graphene nanostructures. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 133204.	0.7	137
517	Reduced spin-Hall effects from magnetic proximity. <i>Physical Review B</i> , 2015, 91, .	1.1	74
518	Giant thermal spin-torque-assisted magnetic tunnel junction switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6585-6590.	3.3	59
520	Reciprocal spin Hall effects in conductors with strong spin-orbit coupling: a review. <i>Reports on Progress in Physics</i> , 2015, 78, 124501.	8.1	93
521	Zigzag nanoribbons of two-dimensional silicene-like crystals: magnetic, topological and thermoelectric properties. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 485301.	0.7	16
522	Spin Hall effects. <i>Reviews of Modern Physics</i> , 2015, 87, 1213-1260.	16.4	2,087
523	Conversion of equilibrium spin current into charge current through a quantum-dot spin valve subject to circularly polarized field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 3114-3118.	0.9	2
524	Variational principle for magnetisation dynamics in a temperature gradient. <i>Europhysics Letters</i> , 2015, 112, 17006.	0.7	4
525	Spin and Heat Transport in Ferromagnetic Insulators (FI)/Normal Metal (NM) Mesoscopic Devices – A Boltzmann Approach. <i>Spin</i> , 2015, 05, 1540010.	0.6	1
526	Spin motive force induced in Fe ₃ O ₄ thin films with negative spin polarization. <i>Applied Physics Express</i> , 2015, 8, 123001.	1.1	9
527	Electrically controllable spin pumping in graphene via rotating magnetization. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 295004.	1.3	8
528	Opportunities at the Frontiers of Spintronics. <i>Physical Review Applied</i> , 2015, 4, .	1.5	287
529	Length Scale of the Spin Seebeck Effect. <i>Physical Review Letters</i> , 2015, 115, 096602.	2.9	163

#	ARTICLE	IF	CITATIONS
530	Static Magnetic Proximity Effect in $\text{Pt}/\text{O}/\text{NiFe}$. Physical Review Letters, 2015, 115, 097401.	2.9	69
531	Anomalous and planar Righi-Leduc effects measured in ferromagnetic YIG and NiFe (Presentation) Tj ETQq1 1 0.784314 rgBT /Overlo	0.8	0
532	Non-equilibrium Thermodynamics of the Longitudinal Spin Seebeck Effect. Physics Procedia, 2015, 75, 939-947.	1.2	1
533	Thermal Generation of Spin Current in an Antiferromagnet. Physical Review Letters, 2015, 115, 266601.	2.9	223
534	Symmetry-dependent spin-charge transport and thermopower through a ZSiNR-based FM/normal/FM junction. Journal of Physics Condensed Matter, 2015, 27, 465301.	0.7	12
535	All-oxide spin Seebeck effects. Applied Physics Express, 2015, 8, 083001.	1.1	26
536	Thermospin effects in a quantum dot connected to normal leads. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 443-447.	0.9	4
537	Anisotropic magnetothermopower in ferromagnetic thin films grown on macroscopic substrates. Journal of Magnetism and Magnetic Materials, 2015, 382, 376-379.	1.0	5
538	Spin and charge Nernst effect in a four-terminal quantum dot ring. Journal of Physics Condensed Matter, 2015, 27, 075302.	0.7	7
539	Generation of spin currents by surface plasmon resonance. Nature Communications, 2015, 6, 5910.	5.8	49
540	Nanogram calorimetry using microscale suspended SiNx platforms fabricated via focused ion beam patterning. Review of Scientific Instruments, 2015, 86, 014903.	0.6	1
541	Spin thermoelectric effects in a double quantum dot embedded in an Aharonov-Bohm ring coupled to nonmagnetic leads. Physica B: Condensed Matter, 2015, 461, 122-128.	1.3	5
542	Heat generation by spin-polarized current in a quantum-dot spin battery. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 613-618.	0.9	7
543	The inelastic spin Seebeck effects in a controllable Aharonov-Bohm interferometer based on a molecular quantum dot. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 435-442.	0.9	7
544	Half-metallic properties, single-spin negative differential resistance, and large single-spin Seebeck effects induced by chemical doping in zigzag-edged graphene nanoribbons. Journal of Chemical Physics, 2015, 142, 024706.	1.2	32
545	Enhanced spin thermoelectric effects in BN-embedded zigzag graphene nanoribbons. Chemical Physics Letters, 2015, 625, 14-19.	1.2	14
546	Observation of longitudinal spin-Seebeck effect in cobalt-ferrite epitaxial thin films. AIP Advances, 2015, 5, .	0.6	36
547	Spin caloritronics in graphene. Journal of Applied Physics, 2015, 117, .	1.1	5

#	ARTICLE	IF	CITATIONS
548	Inverse spin Hall effect of antiferromagnetic MnIr in exchange biased NiFe/MnIr films. Journal Physics D: Applied Physics, 2015, 48, 345002.	1.3	8
549	Fluctuation relations for spin currents. Physical Review B, 2015, 92, .	1.1	8
550	Boron nitride zigzag nanoribbons: optimal thermoelectric systems. Physical Chemistry Chemical Physics, 2015, 17, 22448-22454.	1.3	11
551	Coherent coupling between a ferromagnetic magnon and a superconducting qubit. Science, 2015, 349, 405-408.	6.0	542
552	Heat generation by spin-polarized current in a quantum dot connected to spin battery and ferromagnetic lead. Chinese Physics B, 2015, 24, 057302.	0.7	0
553	Theory and Applications of Spin Torque Nano-Oscillator: A Brief Review. Solid State Phenomena, 0, 232, 147-167.	0.3	2
554	Spin transport in antiferromagnetic insulators mediated by magnetic correlations. Physical Review B, 2015, 91, .	1.1	94
555	Advancement in Heusler compounds and other spintronics material designs and applications. Journal Physics D: Applied Physics, 2015, 48, 160301.	1.3	10
556	Influence of interface condition on spin-Seebeck effects. Journal Physics D: Applied Physics, 2015, 48, 164013.	1.3	37
557	Thermal Effects in Spintronics: Physics and Applications. , 2015, , 1-20.		0
558	Spin power and efficiency in an Aharonov-Bohm ring with an embedded magnetic impurity quantum dot. Applied Physics Letters, 2015, 106, 193107.	1.5	5
559	Spin Thermoelectric Effects in a Strongly Correlated Double Quantum Dot System. Acta Physica Polonica A, 2015, 127, 478-480.	0.2	1
560	Single Molecules Trapped by Dynamic Inhomogeneous Temperature Fields. Nano Letters, 2015, 15, 5499-5505.	4.5	82
561	Photodrive of magnetic bubbles via magnetoelastic waves. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8977-8981.	3.3	87
562	Coherent coupling of a single spin to microwave cavity photons. Science, 2015, 349, 408-411.	6.0	169
563	Control of thermal gradient using thermoelectric coolers for study of thermal effects. Journal of Applied Physics, 2015, 117, 17C508.	1.1	0
564	Spin-Polarized Transport Through a Quantum Dot Coupled to Leads with Spin-Dependent Electron Temperature. Journal of Low Temperature Physics, 2015, 180, 321-329.	0.6	3
565	A sample holder with integrated laser optics for an ELMITEC photoemission electron microscope. Review of Scientific Instruments, 2015, 86, 023702.	0.6	13

#	ARTICLE	IF	CITATIONS
566	Spin-related thermoelectric conversion in lateral spin-valve devices with single-crystalline Co ₂ FeSi electrodes. Applied Physics Express, 2015, 8, 043003.	1.1	12
567	Seebeck effects in two-dimensional spin transistors. Physical Review B, 2015, 91, .	1.1	7
568	Optimum design of a nanoscale spin-Seebeck power device. Nanoscale, 2015, 7, 7920-7926.	2.8	7
569	Spin caloritronics of blue phosphorene nanoribbons. Physical Chemistry Chemical Physics, 2015, 17, 10462-10467.	1.3	33
570	Thermal spin transport of a nitroxide radical-based molecule. RSC Advances, 2015, 5, 20699-20703.	1.7	5
571	Spin Seebeck devices using local on-chip heating. Journal of Applied Physics, 2015, 117, .	1.1	28
572	High-resolution electron microscopy in spin pumping NiFe/Pt interfaces. Journal of Applied Physics, 2015, 117, .	1.1	3
573	Longitudinal spin Seebeck effect contribution in transverse spin Seebeck effect experiments in Pt/YIG and Pt/NFO. Nature Communications, 2015, 6, 8211.	5.8	87
574	Magnetic Nernst effect. Modern Physics Letters B, 2015, 29, 1550246.	1.0	1
575	Fast Switching in Thermoelectric Spin-Transfer Torque MRAM with Temperature Increase Caused by Peltier Effect. Integrated Ferroelectrics, 2015, 165, 98-107.	0.3	2
576	Significant change of spin transport property in Cu/Nb bilayer due to superconducting transition. Scientific Reports, 2014, 4, 6260.	1.6	17
577	Magnetization pumping and dynamics in a Dzyaloshinskii-Moriya magnet. Europhysics Letters, 2015, 109, 67008.	0.7	7
578	Theory of unidirectional spin heat conveyer. Journal of Applied Physics, 2015, 117, 17C710.	1.1	7
579	Enhancement of spin-Seebeck effect by inserting ultra-thin Fe ₇₀ Cu ₃₀ interlayer. Applied Physics Letters, 2015, 106, .	1.5	34
580	Longitudinal spin Seebeck effect in Nd ₂ BiFe ₅ ~xGa _x O ₁₂ prepared on gadolinium gallium garnet (001) by metal organic decomposition method. Journal of Applied Physics, 2015, 117, .	1.1	12
581	Spin-dependent Seebeck effects in a graphene nanoribbon coupled to two square lattice ferromagnetic leads. Journal of Applied Physics, 2015, 117, .	1.1	20
582	Inverse spin Hall effect in Pt/(Ga,Mn)As. Applied Physics Letters, 2015, 106, 222405.	1.5	4
583	Transverse thermoelectric effect in La _{0.67} Sr _{0.33} MnO ₃ SrRuO ₃ superlattices. Applied Physics Letters, 2015, 106, 232403.	1.5	27

#	ARTICLE	IF	CITATIONS
584	Off-resonant polarized light-controlled thermoelectric transport in ultrathin topological insulators. <i>Physical Review B</i> , 2015, 91, .	1.1	23
585	Enhanced valley-resolved thermoelectric transport in a magnetic silicene superlattice. <i>New Journal of Physics</i> , 2015, 17, 073026.	1.2	37
586	Spin-current Seebeck effect in an interacting quantum dot: Atomic approximation for the Anderson impurity model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 334-339.	1.3	2
587	Giant spin thermoelectric effects in all-carbon nanojunctions. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22815-22822.	1.3	15
588	Separation of spin Seebeck effect and anomalous Nernst effect in Co/Cu/YIG. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	46
589	Thermal Transport and Nonequilibrium Temperature Drop Across a Magnetic Tunnel Junction. <i>Physical Review Letters</i> , 2015, 115, 037203.	2.9	38
590	Exchange and electric fields enhanced spin thermoelectric performance of germanene nano-ribbon. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 295302.	0.7	7
591	Spin Seebeck Power Conversion. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-14.	1.2	50
592	Oxygen deficiency induced deterioration in microstructure and magnetic properties at Y3Fe5O12/Pt interface. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	28
593	Observation of inverse spin Hall effect in ferromagnetic FePt alloys using spin Seebeck effect. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	40
594	Magnon-driven longitudinal spin Seebeck effect in F/N and F/N structures: Role of asymmetric in-plane magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 340, 1-6.	1.0	10
595	Optimal single quantum dot heat-to-pure-spin-current converters. <i>Physica B: Condensed Matter</i> , 2015, 478, 153-160.	1.3	2
596	New Pathways Towards Efficient Metallic Spin Hall Spintronics. <i>Spin</i> , 2015, 05, 1530005.	0.6	13
597	Spin effects in thermoelectric phenomena in SiC nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 1925-1933.	1.3	11
598	Molecular beam epitaxy growth and properties of Co2TiSi thin films on GaAs(001): the effect of growth temperature. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 025003.	1.3	6
599	Chargeless spin current for switching and coupling of domain walls in magnetic nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 367-371.	0.9	1
600	Magnetocaloric Energy Conversion. <i>Green Energy and Technology</i> , 2015, . .	0.4	171
601	Sign of inverse spin Hall voltages generated by ferromagnetic resonance and temperature gradients in yttrium iron garnet platinum bilayers. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 025001.	1.3	52

#	ARTICLE	IF	CITATIONS
602	A quantum dot spin qubit with thermal bias. <i>Quantum Information Processing</i> , 2015, 14, 479-489.	1.0	6
603	Ultrahigh spin thermopower and pure spin current in a single-molecule magnet. <i>Scientific Reports</i> , 2014, 4, 4128.	1.6	12
604	Robust longitudinal spin-Seebeck effect in Bi-YIG thin films. <i>Scientific Reports</i> , 2014, 4, 4429.	1.6	75
605	Photon-Assisted Heat Generation by Electric Current in a Quantum Dot Attached to Ferromagnetic Leads. <i>Chinese Physics Letters</i> , 2016, 33, 117201.	1.3	10
606	Finely Controlled Approaches to Formation of Heusler-Alloy/Semiconductor Heterostructures for Spintronics. <i>Materials Transactions</i> , 2016, 57, 760-766.	0.4	14
607	Performance of Nano-Submicron-Stripe Pd Thin-Film Temperature Sensors. <i>Nanoscale Research Letters</i> , 2016, 11, 351.	3.1	9
608	Utilization of the Antiferromagnetic IrMn Electrode in Spin Thermoelectric Devices and Their Beneficial Hybrid for Thermopiles. <i>Advanced Functional Materials</i> , 2016, 26, 5507-5514.	7.8	21
609	Improvement of Mixing Conductance and Spin-Seebeck Effect at Fe Interface Treatment. <i>MRS Advances</i> , 2016, 1, 3959-3964.	0.5	2
610	Effect of NiO inserted layer on spin-Hall magnetoresistance in Pt/NiO/YIG heterostructures. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	55
611	Spin filtering and thermopower in star-coupled quantum dot devices. <i>Physical Review B</i> , 2016, 94, .	1.1	9
612	Spin-valley caloritronics in silicene near room temperature. <i>Physical Review B</i> , 2016, 94, .	1.1	23
613	Thermally driven transverse transports and magnetic dynamics on a topological surface capped with a ferromagnet strip. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	3
614	Atomic-Scale Engineering of Abrupt Interface for Direct Spin Contact of Ferromagnetic Semiconductor with Silicon. <i>Scientific Reports</i> , 2016, 6, 22841.	1.6	32
615	Demonstration of a robust magnonic spin wave interferometer. <i>Scientific Reports</i> , 2016, 6, 30268.	1.6	49
616	Detection of DC currents and resistance measurements in longitudinal spin Seebeck effect experiments on Pt/YIG and Pt/NFO. <i>AIP Advances</i> , 2016, 6, .	0.6	5
617	Flexible heat-flow sensing sheets based on the longitudinal spin Seebeck effect using one-dimensional spin-current conducting films. <i>Scientific Reports</i> , 2016, 6, 23114.	1.6	64
618	Gamma radiation resistance of spin Seebeck devices. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	4
619	A review on wireless powering schemes for implantable microsystems in neural engineering applications. <i>Biomedical Engineering Letters</i> , 2016, 6, 205-215.	2.1	19

#	ARTICLE	IF	CITATIONS
620	Observation of thermally driven field-like spin torque in magnetic tunnel junctions. Applied Physics Letters, 2016, 109, 032406.	1.5	24
621	Interaction of magnetization and heat dynamics for pulsed domain wall movement with Joule heating. Journal of Applied Physics, 2016, 120, .	1.1	11
622	Untangling the contributions of cerium and iron to the magnetism of Ce-doped yttrium iron garnet. Applied Physics Letters, 2016, 108, .	1.5	8
623	Spin-current-driven thermoelectric generation based on interfacial spin-orbit coupling. Applied Physics Letters, 2016, 108, 242409.	1.5	8
624	Magnetoelectric control of spin currents. Applied Physics Letters, 2016, 108, .	1.5	8
625	Synthesis of low-moment CrVTiAl: A potential room temperature spin filter. Applied Physics Letters, 2016, 109, .	1.5	23
626	Enhancement of thermospin effect in ZGNRs via p-n co-doping on edge. Journal of Applied Physics, 2016, 120, 135108.	1.1	2
627	Spin Seebeck effect in a weak ferromagnet. Applied Physics Letters, 2016, 108, .	1.5	16
628	Absence of the Thermal Hall Effect in Anomalous Nernst and Spin Seebeck Effects. Physical Review Letters, 2016, 117, 247201.	2.9	20
629	Spin and charge thermopower effects in the ferromagnetic graphene junction. Journal of Applied Physics, 2016, 120, .	1.1	7
630	Spin-dependent thermoelectric effect and spin battery mechanism in triple quantum dots with Rashba spin-orbital interaction. Chinese Physics B, 2016, 25, 117307.	0.7	2
631	Landau-Lifshitz theory of the magnon-drag thermopower. Europhysics Letters, 2016, 115, 57004.	0.7	20
632	A hybrid superconducting quantum dot acting as an efficient charge and spin Seebeck diode. New Journal of Physics, 2016, 18, 093024.	1.2	16
633	Anisotropic longitudinal optical conductivity of a spin-orbit coupled system: effect of cubic Dresselhaus coupling. Proceedings of SPIE, 2016, .	0.8	1
634	Thermal generation of spin current in a multiferroic helimagnet. APL Materials, 2016, 4, 032502.	2.2	11
635	Thermoelectric performance of spin Seebeck effect in Fe ₃ O ₄ /Pt-based thin film heterostructures. APL Materials, 2016, 4, 104802.	2.2	42
636	Thermal generation of spin current in epitaxial CoFe ₂ O ₄ thin films. Applied Physics Letters, 2016, 108, .	1.5	26
637	Thermal imaging of spin Peltier effect. Nature Communications, 2016, 7, 13754.	5.8	114

#	ARTICLE	IF	CITATIONS
638	Characteristic length scale of the magnon accumulation in Fe ₃ O ₄ /Pt bilayer structures by incoherent thermal excitation. Applied Physics Letters, 2016, 109, .	1.5	20
639	Transport properties of Co-based Heusler compounds Co ₂ VAl and Co ₂ VGa: spin-polarized DFT+U. RSC Advances, 2016, 6, 54001-54012.	1.7	22
640	Thermoelectric Generation Based on Spin Seebeck Effects. Proceedings of the IEEE, 2016, 104, 1946-1973.	16.4	232
641	BiSb and spin-related thermoelectric phenomena. Proceedings of SPIE, 2016, , .	0.8	5
642	Pumped Spin-Current in Single Quantum Dot with Spin-Dependent Electron Temperature. International Journal of Theoretical Physics, 2016, 55, 4036-4043.	0.5	1
643	A spin-Seebeck diode with a negative differential spin-Seebeck effect in a hydrogen-terminated zigzag silicene nanoribbon heterojunction. Physical Chemistry Chemical Physics, 2016, 18, 12742-12747.	1.3	21
644	Inverse spin Hall effect from pulsed spin current in organic semiconductors with tunable spin-orbit coupling. Nature Materials, 2016, 15, 863-869.	13.3	111
645	Spin-dependent Seebeck effect in zigzag black phosphorene nanoribbons. RSC Advances, 2016, 6, 44019-44023.	1.7	19
646	Photo-spin-voltaic effect. Nature Physics, 2016, 12, 861-866.	6.5	52
647	Spin-dependent thermoelectric effects in a strongly correlated double quantum dot. Physical Review B, 2016, 94, .	1.1	29
648	Conversion efficiency of spin power to charge power in a normal metal with spin-orbit coupling. Physica B: Condensed Matter, 2016, 502, 166-169.	1.3	0
649	How to control spin-Seebeck current in a metal-quantum dot-magnetic insulator junction. Physical Review B, 2016, 94, .	1.1	21
650	Temperature-dependent exchange stiffness and domain wall width in Co. Physical Review B, 2016, 94, .	1.1	86
651	Spin Current Physics and Its Thermoelectric Application. , 2016, , 327-341.		0
652	Strong modification of intrinsic spin Hall effect in FeMn with antiferromagnetic order formation. RSC Advances, 2016, 6, 93491-93495.	1.7	6
653	Quantum diagrammatic theory of the extrinsic spin Hall effect in graphene. Physical Review B, 2016, 94, .	1.1	29
654	Vertical spin Hall magnetoresistance in $T \ll T_c$ $a \ll \lambda$ $P \ll \tau$	1.1	6
655	Phenomenological Spin Transport Theory Driven by Anomalous Nernst Effect. Journal of the Physical Society of Japan, 2016, 85, 074705.	0.7	3

#	ARTICLE	IF	CITATIONS
656	Thermal spin current and spin accumulation at ferromagnetic insulator/nonmagnetic metal interface. Physical Review B, 2016, 94, .	1.1	14
657	Nanoscale solid-state cooling: a review. Reports on Progress in Physics, 2016, 79, 095901.	8.1	55
658	Temperature dependence of angular momentum transport across interfaces. Physical Review B, 2016, 94, .	1.1	31
659	Influence of Thickness and Interface on the Low-Temperature Enhancement of the Spin Seebeck Effect in YIG Films. Physical Review X, 2016, 6, .	2.8	103
660	Magnons and Phonons Optically Driven out of Local Equilibrium in a Magnetic Insulator. Physical Review Letters, 2016, 117, 107202.	2.9	45
661	Two types of all-optical magnetization switching mechanisms using femtosecond laser pulses. Physical Review B, 2016, 94, .	1.1	134
662	Thickness dependence of spin Hall angle of Au grown on $Y_{3-x}F_xO_{12}$ epitaxial $e^{-5}O_{12}$ graphyne nanoribbons and new device design. Scientific Reports, 2016, 6, 25914.	1.1	33
663	The spin-dependent transport properties of zigzag $\hat{\Gamma}$ -graphyne nanoribbons and new device design. Scientific Reports, 2016, 6, 25914.	1.6	30
664	Atomistic switch of giant magnetoresistance and spin thermopower in graphene-like nanoribbons. Scientific Reports, 2016, 6, 36762.	1.6	8
665	Influence of yttrium iron garnet thickness and heater opacity on the nonlocal transport of electrically and thermally excited magnons. Physical Review B, 2016, 94, .	1.1	72
666	Large thermoelectric power and figure of merit in a ferromagnetic “quantum dot” superconducting device. Physical Review B, 2016, 94, .	1.1	39
667	Joule heating in spin Hall geometry. Applied Physics Express, 2016, 9, 073005.	1.1	2
668	Half-metallic YN_2 monolayer: dual spin filtering, dual spin diode and spin Seebeck effects. Physical Chemistry Chemical Physics, 2016, 18, 28018-28023.	1.3	35
669	Spin Orbit Coupling Controlled Spin Pumping and Spin Hall Magnetoresistance Effects. Advanced Electronic Materials, 2016, 2, 1600112.	2.6	25
670	Laser-initiated magnetization reversal and correlated morphological effects visualized with <i>in situ</i> Fresnel transmission electron microscopy. Physical Review B, 2016, 94, .	1.1	2
671	Large extrinsic spin Hall effect in Au-Cu alloys by extensive atomic disorder scattering. Physical Review B, 2016, 93, .	1.1	31
672	Scaling relation between anomalous Nernst and Hall effect in $Y_{1-x}Pt_x$ $Y_{1-x}Pt_x$ Physical Review B, 2016, 93, .	1.1	54
673	Observation of magnon-mediated electric current drag at room temperature. Physical Review B, 2016, 93, .	1.1	76

#	ARTICLE	IF	CITATIONS
674	Spin Seebeck effect in an (In,Ga)As quantum well with equal Rashba and Dresselhaus spin-orbit couplings. <i>Physical Review B</i> , 2016, 93, .	1.1	2
675	Spin-thermoelectric transport induced by interactions and spin-flip processes in two-dimensional topological insulators. <i>Physical Review B</i> , 2016, 93, .	1.1	34
676	Wave-vector-dependent spin pumping as a probe of exchange-coupled magnons. <i>Physical Review B</i> , 2016, 93, .	1.1	5
677	Self-consistent description of spin-phonon dynamics in ferromagnets. <i>Physical Review B</i> , 2016, 94, .	1.1	10
678	Exchange-Driven Spin Relaxation in Ferromagnet-Oxide-Semiconductor Heterostructures. <i>Physical Review Letters</i> , 2016, 116, 107201.	2.9	5
679	Observation of the Dzyaloshinskii-Moriya Spin Relaxation in Single-Crystalline Pt Thin Films. <i>Physical Review Letters</i> , 2016, 116, 256802.	2.9	50
681	First- and second-harmonic detection of spin accumulation in a multiterminal lateral spin valve under high-bias ac current. <i>Physical Review B</i> , 2016, 94, .	1.1	4
685	Theory of the spin Seebeck effect in antiferromagnets. <i>Physical Review B</i> , 2016, 93, .	1.1	106
686	Spin injection and spin transport in paramagnetic insulators. <i>Physical Review B</i> , 2016, 93, .	1.1	36
687	Spin-dependent Seebeck effects in graphene-based molecular junctions. <i>Physical Review B</i> , 2016, 93, .	1.1	63
688	Large Spin-Wave Bullet in a Ferrimagnetic Insulator Driven by the Spin Hall Effect. <i>Physical Review Letters</i> , 2016, 116, 057601.	2.9	66
689	Thermoelectric properties of the spin-polarized half-metallic ferromagnetic CsTe and RbSe compounds. <i>RSC Advances</i> , 2016, 6, 98197-98207.	1.7	11
690	Magnon Spin Nernst Effect in Antiferromagnets. <i>Physical Review Letters</i> , 2016, 117, 217203.	2.9	139
691	Design of spin-Seebeck diode with spin semiconductors. <i>Nanotechnology</i> , 2016, 27, 505201.	1.3	19
692	Enhanced spin Seebeck effect signal due to spin-momentum locked topological surface states. <i>Nature Communications</i> , 2016, 7, 11458.	5.8	91
693	Quasianalytical treatment of the spin Seebeck effect on the Na ₂ molecule. <i>Physical Review B</i> , 2016, 94, .	1.1	7
694	High Thermal Gradient in Thermo-electrochemical Cells by Insertion of a Poly(Vinylidene Fluoride) Membrane. <i>Scientific Reports</i> , 2016, 6, 29328.	1.6	33
695	Spin transport in half-metallic ferromagnets. <i>Physical Review B</i> , 2016, 94, .	1.1	24

#	ARTICLE	IF	CITATIONS
696	Resonant Excitation of the Spin-Wave Current in Hybrid Nanostructures. Applied Magnetic Resonance, 2016, 47, 1179-1191.	0.6	1
697	Nanoscale control of heat and spin conduction in artificial spin chains. Physical Review B, 2016, 94, .	1.1	2
698	Thermoelectric phenomena in chemically synthesized graphene nanoribbons with substitution atoms and functional groups. Physica Status Solidi (B): Basic Research, 2016, 253, 2523-2527.	0.7	1
699	Anomalous and planar Righi-Leduc effects in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 80 \langle \text{mml:mn} \rangle \langle \text{mml:math} \text{width="0.16em"} \rangle / \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{Fe} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 20 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{ferromagnets. Physical Review B, 2016, 94, .$	1.1	14
700	Helicity-dependent photocurrent induced by the in-plane transverse electric current in an InAs quantum well. Scientific Reports, 2016, 6, 31189.	1.6	2
701	An analysis of the feasibility of energy harvesting with thermoelectric generators on petascale and exascale systems. , 2016, , .		3
702	Spin Caloritronic Transport of 1,3,5-Triphenylverdazyl Radical. Chinese Physics Letters, 2016, 33, 037303.	1.3	1
703	Gate-Voltage-Induced Magnetization Reversal and Tunneling Anisotropic Magnetoresistance in a Single Molecular Magnet with Temperature Gradient. Chinese Physics Letters, 2016, 33, 067203.	1.3	0
704	Anomalous Hall hysteresis in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle T \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle m \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle F \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \langle \text{mml:math} \rangle \text{Characterization of co-doped (In, N): ZnO by indigenous thermopower measurement system. AIP Conference Proceedings, 2016, , .$	1.1	106
705	Characterization of co-doped (In, N): ZnO by indigenous thermopower measurement system. AIP Conference Proceedings, 2016, , .	0.3	0
706	Boosting spin-caloritronic effects by attractive correlations in molecular junctions. Scientific Reports, 2016, 6, 19236.	1.6	9
707	Swift thermal steering of domain walls in ferromagnetic MnBi stripes. Scientific Reports, 2016, 6, 24411.	1.6	10
708	Research Update: Utilizing magnetization dynamics in solid-state thermal energy conversion. APL Materials, 2016, 4, .	2.2	18
709	Multiple field response of artificial magneto-electric epitaxial thin films. , 2016, , .		0
710	Nanostructured Conjugated Polymers for Energy-Related Applications beyond Solar Cells. Chemistry - an Asian Journal, 2016, 11, 1489-1511.	1.7	137
711	Microscopic origin of subthermal magnons and the spin Seebeck effect. New Journal of Physics, 2016, 18, 052002.	1.2	16
712	Anomalous Nernst Effect of Perpendicularly Magnetic Anisotropy TbFeCo Thin Films. Journal of Electronic Materials, 2016, 45, 3570-3575.	1.0	14
713	What determines the sign of the spin Hall effects in Cu alloys doped with 5d elements?. Journal of Magnetism and Magnetic Materials, 2016, 400, 184-187.	1.0	3

#	ARTICLE	IF	CITATIONS
714	Spin thermoelectric efficiency across a normal-metal/ferromagnetic-insulator interface. Physica B: Condensed Matter, 2016, 494, 59-62.	1.3	1
715	Temperature-dependent transformation thermotics for unsteady states: Switchable concentrator for transient heat flow. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 1641-1647.	0.9	47
716	Spectacular enhancement of thermoelectric phenomena in chemically synthesized graphene nanoribbons with substitution atoms. Physical Chemistry Chemical Physics, 2016, 18, 18246-18254.	1.3	10
717	Valley Seebeck effect in gate tunable zigzag graphene nanoribbons. Carbon, 2016, 99, 451-455.	5.4	28
718	Ca _{2.90} Li _{0.30} Nb _{1.93} Ga _{2.76} O ₁₂ and La _{0.57} Ca _{2.38} Li _{0.72} Nb _{2.01} Ga _{2.26} O ₁₂ crystals: New substrates with more perfect lattice constant for garnet-type film. Journal of Alloys and Compounds, 2016, 660, 471-479.	2.8	7
719	Influence of Interface Structure on Magnetic Proximity Effect in Pt/Y ₃ Fe ₅ O ₁₂ Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 8175-8183.	4.0	36
720	Theory of spin Hall magnetoresistance (SMR) and related phenomena. Journal of Physics Condensed Matter, 2016, 28, 103004.	0.7	73
721	Diffusive magnonic spin transport in antiferromagnetic insulators. Physical Review B, 2016, 93, .	1.1	110
722	Temperature-controlled spin filter and spin valve based on Fe-doped monolayer MoS ₂ . Physical Chemistry Chemical Physics, 2016, 18, 6053-6058.	1.3	25
723	Spin-dependent Seebeck effect in Aharonov-Bohm rings with Rashba and Dresselhaus spin-orbit interactions. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 80, 163-167.	1.3	6
724	Origin of the spin Seebeck effect in compensated ferrimagnets. Nature Communications, 2016, 7, 10452.	5.8	154
725	Temperature dependence of spin pumping and Gilbert damping in thin Co/Pt bilayers. Journal of Physics Condensed Matter, 2016, 28, 056004.	0.7	21
726	Evolution of anomalous Hall behavior in thin Pt/Co/Pt trilayers. Journal of Magnetism and Magnetic Materials, 2016, 405, 311-316.	1.0	1
727	Thermal Bias on the Pumped Spin-Current in a Two-Level Quantum Dot. International Journal of Theoretical Physics, 2016, 55, 2755-2763.	0.5	0
728	Thermoelectric and spin-caloritronic coolers: from basics to recent developments. Proceedings of SPIE, 2016, .	0.8	4
729	Modulation of the Spectral Characteristics of a Nano-Contact Spin-Torque Oscillator via Spin Waves in an Adjacent Yttrium-Iron Garnet Film. IEEE Magnetics Letters, 2016, 7, 1-4.	0.6	7
730	Axisymmetric All-Carbon Devices with High-Spin Filter Efficiency, Large-Spin Rectifying, and Strong-Spin Negative Differential Resistance Properties. Journal of Physical Chemistry C, 2016, 120, 668-676.	1.5	21
731	Searching for new thermoelectric materials: some examples among oxides, sulfides and selenides. Journal of Physics Condensed Matter, 2016, 28, 013001.	0.7	56

#	ARTICLE	IF	CITATIONS
732	Thermoelectric ZT enhanced by asymmetric configuration in single-molecule-magnet junctions. Journal Physics D: Applied Physics, 2016, 49, 045002.	1.3	5
733	Thermoelectric effects in triple quantum dots coupled to a normal and a superconducting leads. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 958-964.	0.9	17
734	Bulk magnon spin current theory for the longitudinal spin Seebeck effect. Journal of Magnetism and Magnetic Materials, 2016, 400, 171-177.	1.0	73
735	Spin-dependent thermoelectric figure of merit in a quantum dot. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 277-281.	0.9	5
736	Heat production by diffusion of pure spin current. Journal of Magnetism and Magnetic Materials, 2016, 400, 168-170.	1.0	3
737	Temperature dependence of the spin Seebeck effect in [Fe3O4/Pt] _n multilayers. AIP Advances, 2017, 7, .	0.6	19
738	Materials and devices for all-optical helicity-dependent switching. Journal Physics D: Applied Physics, 2017, 50, 133002.	1.3	43
739	Magnetization oscillations and waves driven by pure spin currents. Physics Reports, 2017, 673, 1-31.	10.3	113
740	Temperature-controlled colossal magnetoresistance and perfect spin Seebeck effect in hybrid graphene/boron nitride nanoribbons. Physical Chemistry Chemical Physics, 2017, 19, 4085-4092.	1.3	27
741	Charge and spin dynamics driven by ultrashort extreme broadband pulses: A theory perspective. Physics Reports, 2017, 672, 1-82.	10.3	38
742	Magnetic domain wall depinning assisted by spin wave bursts. Nature Physics, 2017, 13, 448-454.	6.5	41
743	Spin Seebeck effect and thermoelectric phenomena in superconducting hybrids with magnetic textures or spin-orbit coupling. Scientific Reports, 2017, 7, 41409.	1.6	17
744	Thermal spin transport properties based on VS ₂ monolayer: A first-principles study. Journal of Alloys and Compounds, 2017, 701, 754-758.	2.8	5
745	Spin Seebeck effect in nanometer-thick YIG micro-fabricated strips. AIP Advances, 2017, 7, 055924.	0.6	5
746	Polarized heat current generated by quantum pumping in two-dimensional topological insulators. Physical Review B, 2017, 95, .	1.1	22
747	Anisotropic magnetoresistance and anomalous Nernst effect in exchange biased permalloy/(1 0 0) NiO single-crystal. Journal of Magnetism and Magnetic Materials, 2017, 432, 507-510.	1.0	10
748	Magnetic tunnel junctions with integrated thermometers for magnetothermopower measurements. Journal of Physics Condensed Matter, 2017, 29, 185303.	0.7	16
749	Spin currents and magnon dynamics in insulating magnets. Journal Physics D: Applied Physics, 2017, 50, 114004.	1.3	49

#	ARTICLE	IF	CITATIONS
750	Comparative determination of Y ₃ Fe ₅ O ₁₂ /Pt interfacial spin mixing conductance by spin-Hall magnetoresistance and spin pumping. Applied Physics Letters, 2017, 110, .	1.5	18
751	Pure spin current transport in gallium doped zinc oxide. Applied Physics Letters, 2017, 110, 052403.	1.5	2
752	Thermally induced magnon accumulation in two-sublattice magnets. Physical Review B, 2017, 95, .	1.1	16
753	Theory of Kondo suppression of spin polarization in nonlocal spin valves. Physical Review B, 2017, 95, .	1.1	13
754	Spin-dependent thermoelectric effects in graphene-based superconductor junctions. Journal of Applied Physics, 2017, 121, .	1.1	11
755	Dramatic enhancement of the saturation magnetization of a sol-gel synthesized Y ₃ Fe ₅ O ₁₂ by a mechanical pressing process. Journal of Alloys and Compounds, 2017, 711, 693-697.	2.8	16
756	Spintronic materials and devices based on antiferromagnetic metals. Progress in Natural Science: Materials International, 2017, 27, 208-216.	1.8	31
757	Zigzag C ₂ N nanoribbons with edge modifications as multi-functional spin devices. Physical Chemistry Chemical Physics, 2017, 19, 12538-12545.	1.3	6
758	Spin Hall magnetoresistance at the interface between platinum and cobalt ferrite thin films with large magnetic anisotropy. AIP Advances, 2017, 7, .	0.6	3
759	Spin-Seebeck Temperature Sensors. IEEE Transactions on Electron Devices, 2017, 64, 2655-2658.	1.6	3
760	Transport mechanism of the magnetoresistance effects in Ta/CoFe ₂ O ₄ nanostructures. Applied Physics Letters, 2017, 110, 192404.	1.5	8
761	Effects of electron-phonon interactions on the spin-dependent Seebeck effect in graphene nanoribbons. Carbon, 2017, 119, 548-554.	5.4	20
762	Enhanced Spin Figure of Merit in a Molecular Junction. Journal of Physical Chemistry C, 2017, 121, 9773-9781.	1.5	0
763	An alternative to the spin-coupled interface resistance for describing heat generation. Physica B: Condensed Matter, 2017, 515, 43-50.	1.3	2
764	Longitudinal spin Seebeck coefficient: heat flux vs. temperature difference method. Scientific Reports, 2017, 7, 46752.	1.6	76
765	Influence of surface smoothing on spin Seebeck effect of Ce ₁ Y ₂ Fe ₅ O ₁₂ deposited by metal organic decomposition. Japanese Journal of Applied Physics, 2017, 56, 04CN04.	0.8	5
766	Magnon cotunneling through a quantum dot. Journal of Magnetism and Magnetic Materials, 2017, 441, 764-768.	1.0	1
767	Separation of inverse spin Hall effect and anomalous Nernst effect in ferromagnetic metals. Journal of Magnetism and Magnetic Materials, 2017, 441, 149-153.	1.0	19

#	ARTICLE	IF	CITATIONS
768	Spin mediated enhanced negative magnetoresistance in Ni ₈₀ Fe ₂₀ and p-silicon bilayer. Solid State Communications, 2017, 259, 24-28.	0.9	8
769	Redox reactions by thermally excited charge carriers: towards sensitized thermal cells. Materials Horizons, 2017, 4, 649-656.	6.4	15
770	Reconstruction of an effective magnon mean free path distribution from spin Seebeck measurements in thin films. New Journal of Physics, 2017, 19, 013011.	1.2	10
771	Dynamic spin-current generation in hybrid structures by sound wave. Low Temperature Physics, 2017, 43, 442-448.	0.2	0
772	Tuning the magnetoresistance symmetry of Pt on magnetic insulators with temperature and magnetic doping. Applied Physics Letters, 2017, 110, .	1.5	4
773	Inverse spin Hall and spin rectification effects in NiFe/FeMn exchange-biased thin films. Journal of Magnetism and Magnetic Materials, 2017, 441, 392-397.	1.0	6
774	Electrical measurement of absolute temperature and temperature transients in a buried nanostructure under ultrafast optical heating. Applied Physics Letters, 2017, 110, 232403.	1.5	7
775	Gilbert damping of magnetostatic modes in a yttrium iron garnet sphere. Applied Physics Letters, 2017, 110, .	1.5	42
776	High-performance thermoelectricity in edge-over-edge zinc-porphyrin molecular wires. Nanoscale, 2017, 9, 5299-5304.	2.8	37
777	Thermal spin torques in magnetic insulators. Physical Review B, 2017, 95, .	1.1	13
778	Effect of Magnetic Fluctuations on Spin Current. Journal of the Physical Society of Japan, 2017, 86, 011004.	0.7	3
779	Relaxation of a coherent, magnetic s-d model system coupled to one and two thermal baths and a laser pulse. Journal of Magnetism and Magnetic Materials, 2017, 432, 276-282.	1.0	2
780	Effect of thermal annealing on the spin Seebeck effect in Pt/Ni ₈₁ Fe ₁₉ at room temperature. Thin Solid Films, 2017, 631, 200-204.	0.8	0
781	Spin-flip reflection at the normal metal-spin superconductor interface. Physical Review B, 2017, 95, .	1.1	10
782	Probing the temperature-dependent magnetic anisotropy and longitudinal spin Seebeck effect in Y ₃ Fe ₅ O ₁₂ . AIP Advances, 2017, 7, 055912.	0.6	1
783	Spin transport in as-grown and annealed thulium iron garnet/platinum bilayers with perpendicular magnetic anisotropy. Physical Review B, 2017, 95, .	1.1	21
784	Role of damping in spin Seebeck effect in yttrium iron garnet thin films. Science Advances, 2017, 3, e1601614.	4.7	42
785	Spin thermoelectric effects in organic single-molecule devices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1738-1744.	0.9	8

#	ARTICLE	IF	CITATIONS
786	Spin-dependent thermoelectric effects in Fe-C6 doped monolayer MoS ₂ . Scientific Reports, 2017, 7, 497.	1.6	13
787	Nonlocal magnon spin transport in NiFe ₂ O ₄ thin films. Applied Physics Letters, 2017, 110, 132406.	1.5	41
788	Magneto-Seebeck effect in magnetic tunnel junctions with perpendicular anisotropy. AIP Advances, 2017, 7, 015035.	0.6	6
789	Spin Seebeck effect in insulating epitaxial $\hat{\Gamma}^3$ Fe ₂ O ₃ thin films. APL Materials, 2017, 5, .	2.2	23
790	Nonreciprocity of electrically excited thermal spin signals in CoFeAl-Cu-Py lateral spin valves. Physical Review B, 2017, 95, .	1.1	7
791	Transport and thermoelectric properties of magnetic organic chains. Physica Status Solidi (B): Basic Research, 2017, 254, 1600783.	0.7	4
792	Spin to Charge Interconversion Phenomena in the Interface and Surface States. Journal of the Physical Society of Japan, 2017, 86, 011001.	0.7	43
793	Spin caloritronics, origin and outlook. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 825-837.	0.9	84
794	Unique magnetic and thermoelectric properties of chemically functionalized narrow carbon polymers. Journal of Physics Condensed Matter, 2017, 29, 045303.	0.7	4
795	Resonance excitation of the spin-wave current in hybrid structures. Journal of Magnetism and Magnetic Materials, 2017, 440, 87-88.	1.0	0
796	Strong spin Seebeck effect in Kondo T-shaped double quantum dots. Journal of Physics Condensed Matter, 2017, 29, 055303.	0.7	7
797	Sensitive measurement of spin-orbit torque driven ferromagnetic resonance detected by planar Hall geometry. Applied Physics Letters, 2017, 111, 162405.	1.5	19
798	How to realize a spin-dependent Seebeck diode effect in metallic zigzag $\hat{\Gamma}^3$ -graphyne nanoribbons?. Nanoscale, 2017, 9, 18334-18342.	2.8	42
799	Spin Caloritronic Transport of $(2\hat{\Gamma}^3-1)$ Reconstructed Zigzag MoS ₂ Nanoribbons. Chinese Physics Letters, 2017, 34, 107301.	1.3	6
800	Spin Seebeck effect in the antiferromagnet nickel oxide at room temperature. Applied Physics Letters, 2017, 111, .	1.5	47
801	Spin-Seebeck effect and spin polarization in a multiple quantum dot molecule. Physical Review B, 2017, 96, .	1.1	17
802	Theory of the spin Peltier effect. Physical Review B, 2017, 96, .	1.1	44
803	Direct observation of magnon-phonon coupling in yttrium iron garnet. Physical Review B, 2017, 96, .	1.1	61

#	ARTICLE	IF	CITATIONS
804	Observation of spin-orbit effects with spin rotation symmetry. Nature Communications, 2017, 8, 911.	5.8	95
805	Roles of bulk and surface magnetic anisotropy on the longitudinal spin Seebeck effect of Pt/YIG. Scientific Reports, 2017, 7, 13316.	1.6	21
806	Temperature gradient-induced magnetization reversal of single ferromagnetic nanowires. Journal Physics D: Applied Physics, 2017, 50, 494007.	1.3	7
807	Optomechanical oscillator controlled by variation in its heat bath temperature. Physical Review A, 2017, 95, .	1.0	10
808	Valley spin Seebeck effect in heavy group-IV monolayers. New Journal of Physics, 2017, 19, 063007.	1.2	22
809	Giant spin-charge conversion driven by nanoscopic particles of Ag in Pt. Physical Review B, 2017, 96, .	1.1	19
810	Spin Seebeck effect in Y-type hexagonal ferrite thin films. Physical Review B, 2017, 96, .	1.1	12
811	Observation of long-lived coherent spin precession in orthoferrite ErFeO ₃ induced by terahertz magnetic fields. Applied Physics Letters, 2017, 111, .	1.5	17
812	Efficient thermal spin injection in metallic nanostructures. Journal Physics D: Applied Physics, 2017, 50, 465003.	1.3	6
813	Terahertz Spin Currents and Inverse Spin Hall Effect in Thin-Film Heterostructures Containing Complex Magnetic Compounds. Spin, 2017, 07, 1740010.	0.6	65
814	Wave Mixing. Springer Series in Solid-state Sciences, 2017, , 261-318.	0.3	0
815	Observation of the spin Nernst effect. Nature Materials, 2017, 16, 977-981.	13.3	137
816	Piezospinronic effect in honeycomb antiferromagnets. Physical Review B, 2017, 96, .	1.1	12
817	Thermal transport through a spin-phonon interacting junction: A nonequilibrium Green's function method study. Physical Review B, 2017, 96, .	1.1	13
818	Measurement of Spin Pumping Voltage Separated from Extrinsic Microwave Effects. Journal of the Physical Society of Japan, 2017, 86, 011003.	0.7	65
819	Hydrogenated carbon nanotube-based spin caloritronics. Physical Chemistry Chemical Physics, 2017, 19, 21507-21513.	1.3	14
820	Large anomalous Nernst effect at room temperature in a chiral antiferromagnet. Nature Physics, 2017, 13, 1085-1090.	6.5	432
821	Spin Pumping and Thermal Effects in Single-Crystalline FePt Bilayers at the Nonresonant Condition. Physical Review Applied, 2017, 8, .	1.5	7

#	ARTICLE	IF	CITATIONS
822	Dependence of anomalous Nernst effect on crystal orientation in highly ordered Fe_4N films with anti-perovskite structure. Applied Physics Express, 2017, 10, 073005.	1.1	33
823	Photon-mediated spin-polarized current in a quantum dot under thermal bias. Chinese Physics B, 2017, 26, 037304.	0.7	8
824	Thermal spin transport and energy conversion. Materials Today Physics, 2017, 1, 39-49.	2.9	58
825	Femtosecond Spin Current Pulses Generated by the Nonthermal Spin-Dependent Seebeck Effect and Interacting with Ferromagnets in Spin Valves. Physical Review Letters, 2017, 119, 017202.	2.9	86
826	Anisotropic magnetothermoelectric power of ferromagnetic thin films. Journal of Magnetism and Magnetic Materials, 2017, 441, 542-547.	1.0	1
827	Mechanical Signature of Heat Generated in a Current-Driven Ferromagnetic Resonance System. Physical Review Applied, 2017, 8, .	1.5	4
828	Oscillatory Nernst effect in Pt ferrite cuprate-superconductor trilayer films. Scientific Reports, 2017, 7, 5358.	1.6	8
829	Thickness dependence of anomalous Nernst coefficient and longitudinal spin Seebeck effect in ferromagnetic NiFe_{100-x} films. Scientific Reports, 2017, 7, 6175.	1.6	26
830	Spin pump and probe in lanthanum strontium manganite/platinum bilayers. Scientific Reports, 2017, 7, 6612.	1.6	15
831	Quantitative separation of the anisotropic magnetothermopower and planar Nernst effect by the rotation of an in-plane thermal gradient. Scientific Reports, 2017, 7, 40586.	1.6	20
832	Longitudinal spin Seebeck effect in a half-metallic L_aMnO_3 film. Scientific Reports, 2017, 7, 40586.	1.1	20
833	Enhancement of Seebeck Coefficients by Resonant Tunneling Effect. Journal of Electronic Materials, 2017, 46, 5792-5796.	1.0	2
834	Irreversible thermodynamics of uniform ferromagnets with spin accumulation: Bulk and interface dynamics. Physical Review B, 2017, 95, .	1.1	10
835	Spin Current Generation Using a Surface Acoustic Wave Generated via Spin-Rotation Coupling. Physical Review Letters, 2017, 119, 077202.	2.9	130
836	Thermoelectric and thermospin properties in a quantum ring with an embedded protein-like single-helical molecule. Applied Physics Letters, 2017, 111, 063701.	1.5	5
837	Thermographic measurements of the spin Peltier effect in metal/yttrium-iron-garnet junction systems. Physical Review B, 2017, 96, .	1.1	38
838	Electrical transport and optical band gap of NiFe_2O_x thin films. Journal of Applied Physics, 2017, 122, .	1.1	23
839	Photo-spin voltaic effect and photo-magnetoresistance in proximized platinum. Applied Physics Letters, 2017, 111, 182404.	1.5	1

#	ARTICLE	IF	CITATIONS
840	Magnetic-field-induced decrease of the spin Peltier effect in Pt/Y system at room temperature. <i>Physical Review B</i> , 2017, 96, .	1.1	21
841	Spin Seebeck effect in the polar antiferromagnet \hat{I}_{\pm} Dirac surface state dominated spin to charge current conversion in the topological insulator ($T_{\text{eff}} = TQ_0 / \text{rgBT}$). <i>Physical Review B</i> , 2017, 96, .	1.1	29
842	T_e Green's function formalism for spin transport in metal-insulator-metal heterostructures. <i>Physical Review B</i> , 2017, 96, .	1.1	47
843	Criteria for accurate determination of the magnon relaxation length from the nonlocal spin Seebeck effect. <i>Physical Review B</i> , 2017, 96, .	1.1	25
844	Observation of transverse spin Nernst magnetoresistance induced by thermal spin current in ferromagnet/non-magnet bilayers. <i>Nature Communications</i> , 2017, 8, 1400.	1.1	23
845	Structural and Composition Effects on Electronic and Magnetic Properties in Thermoelectric $Mn_{1-x}Co_2Ge_{1+y}$. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26575-26586.	5.8	36
846	Investigating magnetic proximity effects at ferrite/Pt interfaces. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	11
847	Thermally induced magnetization dynamics of optically excited YIG/Cu trilayers. <i>Physical Review B</i> , 2017, 96, .	1.5	28
848	Theory of Spin Seebeck Effects in a Quantum Wire. <i>Journal of the Physical Society of Japan</i> , 2017, 86, 094703.	0.7	11
849	Anomalous thermoelectric properties of a Floquet topological insulator with spin momentum non-orthogonality. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	5
850	Radiation damping in ferromagnetic resonance induced by a conducting spin sink. <i>Physical Review B</i> , 2017, 96, .	1.1	14
851	The spin Nernst effect in tungsten. <i>Science Advances</i> , 2017, 3, e1701503.	4.7	95
852	Ultrabroadband single-cycle terahertz pulses with peak fields of 300 kV cm^{-1} from a metallic spintronic emitter. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	158
853	High-resolution structural characterization and magnetic properties of epitaxial Ce-doped yttrium iron garnet thin films. <i>Materials Research Express</i> , 2017, 4, 076101.	0.8	2
854	Spin conversion on the nanoscale. <i>Nature Physics</i> , 2017, 13, 829-832.	6.5	75
855	Time-resolved study of field-induced suppression of longitudinal spin Seebeck effect. <i>Applied Physics Express</i> , 2017, 10, 073002.	1.1	13
856	Large Inverse Spin Hall Effect in Co-Pt Spin-Valve Heterostructures. <i>Physical Review Applied</i> , 2017, 7, .	1.5	10

#	ARTICLE	IF	CITATIONS
858	Enhancement of the spin Peltier effect in multilayers. Physical Review B, 2017, 95, .	1.1	36
859	Inverse spin Hall effect in the semiconductor (Ga,Mn)As at room temperature. Physical Review B, 2017, 95, .	1.1	12
860	Theory of spin hydrodynamic generation. Physical Review B, 2017, 96, .	1.1	47
861	Multiple thermal spin transport performances of graphene nanoribbon heterojunction co-doped with Nitrogen and Boron. Scientific Reports, 2017, 7, 3955.	1.6	8
862	Spin mixing conductance enhancement by increasing magnetic density. AIP Advances, 2017, 7, .	0.6	26
863	Spin-dependent thermoelectric phenomena in a quantum dot attached to ferromagnetic and superconducting electrodes. Physical Review B, 2017, 95, .	1.1	23
864	Theory of the spin-Seebeck effect at a topological-insulator/ferromagnetic-insulator interface. Physical Review B, 2017, 95, .	1.1	15
865	Optical detection of transverse spin-Seebeck effect in permalloy film using Sagnac interferometer microscopy. Physical Review B, 2017, 95, .	1.1	13
866	Longitudinal spin Seebeck effect in permalloy separated from the anomalous Nernst effect: Theory and experiment. Physical Review B, 2017, 95, .	1.1	43
867	Interface-induced phenomena in magnetism. Reviews of Modern Physics, 2017, 89, .	16.4	672
868	Spin-resolved quantum transport in graphene-based nanojunctions. Frontiers of Physics, 2017, 12, 1.	2.4	14
869	One-dimensional spinon spin currents. Nature Physics, 2017, 13, 30-34.	6.5	111
870	Thermally induced spin-dependent current based on Zigzag Germanene Nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2017, 86, 175-183.	1.3	7
871	First-principles study of Rashba effect in ultra-thin bismuth surface alloys. Journal of Crystal Growth, 2017, 468, 688-690.	0.7	3
872	Giant enhancement of the intrinsic spin Hall conductivity in WTe_2 via substitutional doping. Physical Review B, 2017, 96, .	1.1	58
873	Nanotechnology for lower grade waste heat recovery. , 2017, , .		1
874	Development and evaluation of thermoelectric power-generating paper using carbon nanotube-composite paper. Japanese Journal of Applied Physics, 2017, 56, 06GE10.	0.8	8
875	Broad Linewidth of Antiferromagnetic Spin Wave due to Electron Correlation. Journal of the Physical Society of Japan, 2017, 86, 124705.	0.7	1

#	ARTICLE	IF	CITATIONS
876	Design concept of a hybrid photo-voltaic/thermal conversion cell for mid-infrared light energy harvester. <i>Optical Materials Express</i> , 2017, 7, 3484.	1.6	10
877	Spin-dependent Seebeck effects in a graphene superlattice p-n junction with different shapes. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 405303.	0.7	6
878	Optimisation of Co ₂ /MnSi thin films and multilayers for spin Seebeck devices. , 2017, , .		0
879	Experimental Investigation of the Temperature-Dependent Magnon Density and Its Influence on Studies of Spin-Transfer-Torque-Driven Systems. <i>IEEE Magnetics Letters</i> , 2017, 8, 1-5.	0.6	4
880	Development and Prospect of Materials for Spintronics. <i>Materia Japan</i> , 2017, 56, 190-194.	0.1	0
881	Rectifying full-counting statistics in a spin Seebeck engine. <i>Physical Review B</i> , 2018, 97, .	1.1	23
882	Spin Seebeck coefficient enhancement by using Ta ₅₀ W ₅₀ alloy and YIG/Ru interface. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 134002.	1.3	19
883	Thermally driven spin-Seebeck transport in chiral dsDNA-based molecular devices. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	5
884	Investigation of the spin Seebeck effect and anomalous Nernst effect in a bulk carbon material. <i>Results in Physics</i> , 2018, 8, 1245-1249.	2.0	2
885	Anomalous Nernst effect of Ni-Al alloys and application to spin Seebeck devices. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FN05.	0.8	0
886	Neutron scattering study of yttrium iron garnet. <i>Physical Review B</i> , 2018, 97, .	1.1	19
887	Magnon Valve Effect between Two Magnetic Insulators. <i>Physical Review Letters</i> , 2018, 120, 097205.	2.9	97
888	Direct detection of spin Nernst effect in platinum. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	31
889	Excitation of Ferromagnetic Resonance Using Surface Acoustic Waves. <i>Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi)</i> , 2018, 204, 3-9.	0.2	4
890	Thermodynamics of energy, charge, and spin currents in a thermoelectric quantum-dot spin valve. <i>Physical Review B</i> , 2018, 97, .	1.1	12
891	Investigating spin-transfer torques induced by thermal gradients in magnetic tunnel junctions by using micro-cavity ferromagnetic resonance. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 224009.	1.3	10
892	Spin-dependent magneto-thermopower of narrow-gap lead chalcogenide quantum wells. <i>Scientific Reports</i> , 2018, 8, 5972.	1.6	8
893	Lock-in thermography measurements of the spin Peltier effect in a compensated ferrimagnet and its comparison to the spin Seebeck effect. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 194002.	1.3	21

#	ARTICLE	IF	CITATIONS
894	Visualization of anomalous Ettingshausen effect in a ferromagnetic film: Direct evidence of different symmetry from spin Peltier effect. Applied Physics Letters, 2018, 112, .	1.5	53
895	Thermoelastic enhancement of the magnonic spin Seebeck effect in thin films and bulk samples. Physical Review B, 2018, 97, .	1.1	10
896	The bimodal distribution spin Seebeck effect enhancement in epitaxial Ni _{0.65} Zn _{0.35} Al _{0.8} Fe _{1.2} O ₄ thin film. Applied Physics Letters, 2018, 112, .	1.5	12
897	Giant Enhancement in Rashba Spin-Seebeck Effect in NiFe/p-Si Thin Films. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800064.	1.2	3
898	Spin-dependent transport properties and Seebeck effects for a crossed graphene superlattice p-n junction with armchair edge. Frontiers of Physics, 2018, 13, 1.	2.4	10
899	Annealing-temperature-dependent voltage-sign reversal in all-oxide spin Seebeck devices using RuO ₂ . Journal Physics D: Applied Physics, 2018, 51, 154002.	1.3	6
900	Spin wave propagation spectra in Octonacci one-dimensional magnonic quasicrystals. Journal of Magnetism and Magnetic Materials, 2018, 456, 228-235.	1.0	3
901	The cooling effect in an InAs quantum dot subjected to THz irradiation and an external magnetic field. Superlattices and Microstructures, 2018, 120, 690-696.	1.4	1
902	First-principles calculations of lattice dynamics and thermodynamic properties for Yb ₁₄ MnSb ₁₁ . Journal of Applied Physics, 2018, 123, .	1.1	10
903	Superconductivity in the graphene monolayer calculated using the Kubo formalism. Physica C: Superconductivity and Its Applications, 2018, 546, 71-75.	0.6	5
904	Perspectives of antiferromagnetic spintronics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 865-871.	0.9	209
905	Magnon and phonon thermometry with inelastic light scattering. Journal Physics D: Applied Physics, 2018, 51, 133001.	1.3	16
906	Thermal Spin Generator Based on a Germanene Nanoribbon Subjected to Local Noncollinear Exchange Fields. Physical Review Applied, 2018, 9, .	1.5	15
907	Spin and Charge Nernst Effects in Four-Terminal Ferromagnetic Graphene. Spin, 2018, 08, 1840001.	0.6	2
908	Magneto-optical detection of spin accumulation under the influence of mechanical rotation. Scientific Reports, 2018, 8, 1974.	1.6	5
909	Metal-free magnetism, spin-dependent Seebeck effect, and spin-Seebeck diode effect in armchair graphene nanoribbons. Scientific Reports, 2018, 8, 927.	1.6	15
910	Spin Current Noise of the Spin Seebeck Effect and Spin Pumping. Physical Review Letters, 2018, 120, 037201.	2.9	47
911	Spin Hall-induced auto-oscillations in ultrathin YIG grown on Pt. Scientific Reports, 2018, 8, 1269.	1.6	36

#	ARTICLE	IF	CITATIONS
912	Valley-locked thermospin effect in silicene and germanene with asymmetric magnetic field induced by ferromagnetic proximity effect. <i>Physical Review B</i> , 2018, 97, .	1.1	27
913	Carbon chain-based spintronic devices: Tunable single-spin Seebeck effect, negative differential resistance and giant rectification effects. <i>Organic Electronics</i> , 2018, 55, 170-176.	1.4	9
914	Spin Seebeck effect and thermal spin galvanic effect in Ni ₈₀ Fe ₂₀ /p-Si bilayers. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	16
915	Tunable magnetotransport in Fe/hBN/graphene/hBN/Pt(Fe) epitaxial multilayers. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 095302.	1.3	8
916	Ferromagnetic MnCoGe thin films produced via magnetron sputtering and non-diffusive reaction. <i>Applied Surface Science</i> , 2018, 437, 336-346.	3.1	13
917	Spin torque in FeRh alloy measured by spin-torque ferromagnetic resonance. <i>Applied Physics Express</i> , 2018, 11, 013008.	1.1	6
918	Anomalous modulation of spin torque-induced ferromagnetic resonance caused by direct currents in permalloy/platinum bilayer thin films. <i>Applied Physics Express</i> , 2018, 11, 013002.	1.1	3
919	Analyzing lifetime of energy harvesting wireless multimedia sensor nodes in industrial environments. <i>Computer Standards and Interfaces</i> , 2018, 58, 109-117.	3.8	9
920	Spin Seebeck effect in a metal-single-molecule-magnet-metal junction. <i>AIP Advances</i> , 2018, 8, 015215.	0.6	6
921	Ferromagnetic-resonance-induced spin pumping in Co ₂₀ /Fe ₆₀ /B ₂₀ /Pt systems: damping investigation. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 045002.	1.3	21
922	Pulsed Inverse Spin-Hall Effect Spectroscopy of Spin-Transport in Organic Semiconductors. <i>Materials and Energy</i> , 2018, , 137-166.	2.5	0
923	Organic-based Magnetically Ordered Films. <i>Materials and Energy</i> , 2018, , 125-168.	2.5	2
924	Spin Seebeck effect and thermal colossal magnetoresistance in Christmas-tree silicene nanoribbons. <i>Chemical Physics Letters</i> , 2018, 699, 250-254.	1.2	5
925	Magnetic phase diagram of a frustrated spin ladder. <i>Physical Review B</i> , 2018, 97, .	1.1	6
926	Long annealing effect on spin Seebeck devices fabricated using Ce _x Y _{3-3x} Fe ₅ O ₁₂ deposited by metal-organic decomposition. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FN06.	0.8	0
927	Long-range transverse spin Seebeck effect in permalloy stripes using Sagnac interferometer microscopy. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 134003.	1.3	6
928	Photon-induced tunability of the thermospin current in a Rashba ring. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 145303.	0.7	10
929	Towards Thermal Reading of Magnetic States in Hall Crosses. <i>Physical Review Applied</i> , 2018, 9, .	1.5	1

#	ARTICLE	IF	CITATIONS
930	Effect of cubic Dresselhaus interaction on the longitudinal optical conductivity of a spin-orbit coupled system. <i>Journal of Applied Physics</i> , 2018, 123, 113902.	1.1	1
931	Magnon and phonon dispersion, lifetime, and thermal conductivity of iron from spin-lattice dynamics simulations. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	40
932	Magnetoresistance in Hybrid Pt/CoFe ₂ O ₄ Bilayers Controlled by Competing Spin Accumulation and Interfacial Chemical Reconstruction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12031-12041.	4.0	28
933	Spin properties of black phosphorus and phosphorene, and their prospects for spin calorics. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 174001.	1.3	12
934	Spin Seebeck effect in a simple ferromagnet near T_c : a Ginzburg-Landau approach. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 144001.	1.3	11
935	Longitudinal magnetothermopower in permalloy spin valves. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 228-231.	1.0	1
936	Thermal spin filtering effect and giant magnetoresistance of half-metallic graphene nanoribbon co-doped with non-metallic Nitrogen and Boron. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 449, 522-529.	1.0	11
937	Anomalous reversal of transverse thermoelectric voltage in $\text{Co}/\text{Mn}/\text{Mn}/\text{Co}$ junction. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 447, 134-138.	1.0	11
938	Spin wave propagation detected over 100m in half-metallic Heusler alloy Co_2MnSi . <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 450, 13-17.	1.0	6
939	Spin-dependent heat and thermoelectric currents in a Rashba ring coupled to a photon cavity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 95, 102-107.	1.3	11
940	Thermally induced pure and spin polarized currents in a zigzag silicene nanoribbon based FM/normal/AFM junction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 95, 78-85.	1.3	8
941	Design, development, and testing of a thermopower measurement system by studying the electron transport properties on indium and nitrogen co-doped sputtered ZnO films. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 117, 49-56.	2.5	4
942	Thermoelectric spin voltage in graphene. <i>Nature Nanotechnology</i> , 2018, 13, 107-111.	15.6	72
943	Spin-Dependent Thermoelectric Effects in Double-Barrier Magnetic Tunnel Junctions with a Non-magnetic Metal Spacer. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 1813-1817.	0.8	0
944	Thermoelectric response of quaternary Heusler compound CrVNiZn . <i>Journal of Alloys and Compounds</i> , 2018, 735, 950-958.	2.8	50
945	Photon-Selective Spin-Dependent Transport Through a Quantum Dot Driven by Electrical and Thermal Biases. <i>International Journal of Theoretical Physics</i> , 2018, 57, 562-569.	0.5	4
946	Enhancement of Thermopower by Structural Asymmetry in Double-Barrier Tunnel Junctions. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 313-316.	0.8	2
947	Design of a multifunctional sample probe for transport measurements. <i>Turkish Journal of Physics</i> , 2018, 42, .	0.5	2

#	ARTICLE	IF	CITATIONS
948	Charge-current angle and frequency dependences of the spin Peltier effect induced by the spin Hall effect. Japanese Journal of Applied Physics, 2018, 57, 0902B6.	0.8	9
949	Thermal emergence of laser-induced spin dynamics for a Ni_4 cluster. Physical Review B, 2018, 97, .	1.1	1
950	Introduction to (p - n)-Type Transverse Thermoelectrics. , 0, , .		1
951	Spin-Polarized Transport and Spin Seebeck Effect in Triple Quantum Dots with Spin-Dependent Interdot Couplings. Nanoscale Research Letters, 2018, 13, 358.	3.1	5
952	Spin Caloritronic Measurements: A Round Robin Comparison of the Longitudinal Spin Seebeck Effect. , 2018, , .		1
953	Electrical spin injection through dual ferromagnetic electrodes in nonlocal spin valves. Physical Review B, 2018, 98, .	1.1	1
954	Reduced interfacial magnetic moment of Y3Fe5O12 by capping Pt. Applied Physics Letters, 2018, 113, 182402.	1.5	7
955	Monitoring Liquid Level of Blast Furnace Hearth and Torpedo Ladle by Electromotive Force Signal. Metals, 2018, 8, 665.	1.0	4
956	First harmonic measurements of the spin Seebeck effect. Applied Physics Letters, 2018, 113, .	1.5	13
957	Magnetic Contribution to the Seebeck Effect. Entropy, 2018, 20, 912.	1.1	5
958	Anomalous Nernst effect on a magnetically doped topological insulator surface: A Green's function approach. Physical Review B, 2018, 98, .	1.1	5
959	Large anomalous Nernst effect across the magneto-structural transition in a bulk Ni-Co-Mn-Sn full Heusler alloy. Applied Physics Letters, 2018, 113, 262405.	1.5	8
960	Effect of Magnon Drag on Spin-Wave Current in Metal/Magnetic-Insulator Structures. Physics of Metals and Metallography, 2018, 119, 1031-1035.	0.3	0
961	Spin Seebeck effect in Fe_2O_3 thin films with high coercive field. Journal of Applied Physics, 2018, 124, .	1.1	12
962	Unusual angular dependence of tunneling magneto-Seebeck effect. AIP Advances, 2018, 8, 115114.	0.6	2
963	Ferromagnet structural tuning of interfacial symmetry breaking and spin Hall angle in ferromagnet/heavy metal bilayers. Applied Physics Letters, 2018, 113, .	1.5	7
964	Spin Thermoelectric Effects in a Three-Terminal Double-Dot Interferometer. Communications in Theoretical Physics, 2018, 70, 625.	1.1	0
965	Role of magnons and the size effect in heat transport through an insulating ferromagnet/insulator interface. Physical Review B, 2018, 98, .	1.1	11

#	ARTICLE	IF	CITATIONS
985	Enhancement of charge and spin Seebeck effect in triple quantum dots coupling to ferromagnetic and superconducting electrodes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 3220-3229.	0.9	6
986	Control of anomalous Nernst effect in spintronic materials. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0902A6.	0.8	3
987	Large tunnel magnetoresistance and temperature-driven spin filtering effect based on the compensated ferrimagnetic spin gapless semiconductor Ti ₂ MnAl. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	25
988	Magnetic nanotubes: A new material platform to realize a robust spin-Seebeck effect and a perfect thermal spin-filtering effect. <i>Physical Review B</i> , 2018, 98, .	1.1	21
989	Role of dimensional crossover on spin-orbit torque efficiency in magnetic insulator thin films. <i>Nature Communications</i> , 2018, 9, 3612.	5.8	84
990	Magnetothermoelectric Properties of Ferrocene-Based Compounds Sandwiched by Transition Metals in the Presence of Gold Electrodes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22063-22072.	1.5	5
991	Spin thermoelectric properties based on a Rashba triple-quantum-dot ring. <i>Journal of Applied Physics</i> , 2018, 124, 085103.	1.1	2
992	Characterization of a Thermoelectric Generator (TEG) System for Waste Heat Recovery. <i>Energies</i> , 2018, 11, 1555.	1.6	32
993	Giant Magnetic Damping in a Co ₂ MnSi -Based Spin Valve from First Principles. <i>Physical Review Applied</i> , 2018, 10, .	1.5	1
994	Spin-wave-induced lateral temperature gradient in a YIG thin film/GGG system excited in an ESR cavity. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	11
995	Ultrafast Photoinduced Multimode Antiferromagnetic Spin Dynamics in Exchange-Coupled Fe ₃ /RFeO ₃ (R = Er or Dy) Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1706439.	11.1	37
996	Spin colossal magnetoresistance in an antiferromagnetic insulator. <i>Nature Materials</i> , 2018, 17, 577-580.	13.3	102
997	Pure spin current and phonon thermoelectric transport in a triangulene-based molecular junction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15736-15745.	1.3	16
998	Quantum materials for spin and charge conversion. <i>Npj Quantum Materials</i> , 2018, 3, .	1.8	132
999	Relation of planar Hall and planar Nernst effects in thin film permalloy. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 244005.	1.3	9
1000	Geometrical contribution to the anomalous Nernst effect in TbFeCo thin films. <i>AIP Advances</i> , 2018, 8, 056326.	0.6	9
1001	A review of the development and applications of thermoelectric microgenerators for energy harvesting. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 376-393.	8.2	167
1002	Enhanced thermo-spin effects in iron-oxide/metal multilayers. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 224003.	1.3	9

#	ARTICLE	IF	CITATIONS
1003	Giant Inverse Spin Hall Effect in Bi Doped PtBi Alloy. <i>Advanced Electronic Materials</i> , 2018, 4, 1700632.	2.6	30
1004	Thermographic measurements of spin-current-induced temperature modulation in metallic bilayers. <i>Physical Review B</i> , 2018, 98, .	1.1	25
1005	The Magnetic Thomson Effect for Heat Flow Control. <i>IEEE Transactions on Magnetics</i> , 2018, 54, 1-6.	1.2	2
1006	Self-consistent determination of spin Hall angle and spin diffusion length in Pt and Pd: The role of the interface spin loss. <i>Science Advances</i> , 2018, 4, eaat1670.	4.7	157
1007	Giant anomalous Nernst effect and quantum-critical scaling in a ferromagnetic semimetal. <i>Nature Physics</i> , 2018, 14, 1119-1124.	6.5	366
1008	Precise Determination of the Temperature Gradients in Laser-irradiated Ultrathin Magnetic Layers for the Analysis of Thermal Spin Current. <i>Scientific Reports</i> , 2018, 8, 11337.	1.6	2
1009	Characterization of as-deposited and sintered Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ films formed by sol-gel. <i>Ferroelectrics</i> , 2018, 528, 131-138.	0.3	7
1010	Single-photon controlled thermospin transport in a resonant ring-cavity system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018, 104, 223-228.	1.3	7
1011	Autonomous Flexible Sensors for Health Monitoring. <i>Advanced Materials</i> , 2018, 30, e1802337.	11.1	176
1012	Spin caloritronics in armchair silicene nanoribbons with sp^3 and sp^2 -type alternating hybridizations. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 355303.	0.7	11
1013	Influence of the two boundaries of the Pt layer on spin current transportation by spin Hall magnetoresistance. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 585-589.	1.0	0
1014	Effect of assisted hopping on spin-dependent thermoelectric transport through correlated quantum dot. <i>Physica B: Condensed Matter</i> , 2018, 545, 337-345.	1.3	6
1015	The spin-dependent Seebeck effect and the charge and spin figure of merit in a hybrid structure of single-walled carbon nanotubes and zigzag-edge graphene nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 19424-19429.	1.3	7
1016	Nonreciprocal spin Seebeck effect in antiferromagnets. <i>Physical Review B</i> , 2018, 98, .	1.1	27
1017	Seebeck Coefficient of Thermocouples from Nickel-Coated Carbon Fibers: Theory and Experiment. <i>Materials</i> , 2018, 11, 922.	1.3	5
1018	Antiferromagnet-based magnonic spin-transfer torque. <i>Physical Review B</i> , 2018, 98, .	1.1	15
1019	The role of metallic nanoparticles in the enhancement of the spin Hall magnetoresistance in YIG/Pt thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 466, 267-272.	1.0	4
1020	Spin-Nernst effect in the paramagnetic regime of an antiferromagnetic insulator. <i>Physical Review B</i> , 2018, 98, .	1.1	21

#	ARTICLE	IF	CITATIONS
1021	Thermal Engineering in Low-Dimensional Quantum Devices: A Tutorial Review of Nonequilibrium Green's Function Methods. <i>Small Methods</i> , 2018, 2, 1700343.	4.6	18
1022	Planar Nernst effect and Mott relation in (In,Fe)Sb ferromagnetic semiconductor. <i>Journal of Applied Physics</i> , 2018, 123, 175102.	1.1	3
1023	Time-resolved lateral spin-caloric transport of optically generated spin packets in n-GaAs. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 214003.	1.3	1
1024	FMR-driven spin pumping in $Y_3Fe_5O_{12}$ -based structures. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 253001.	1.3	51
1025	Thermally Generated Spin Signals in a Nondegenerate Silicon Spin Valve. <i>Physical Review Applied</i> , 2018, 9, .	1.5	6
1026	Generating Spin Current from Mid Infrared Plasmonic Metamaterial Absorbers. , 2018, , .		1
1027	Plasmon-Enhanced Photodetection in Ferromagnet/Nonmagnet Spin Thermoelectric Structures. <i>Advanced Functional Materials</i> , 2018, 28, 1802936.	7.8	7
1028	Thermal spin-filtering, magnetoresistance effects and thermal spin logic gate in Mn-oligoporphyrin-based molecular device. <i>Organic Electronics</i> , 2018, 62, 277-283.	1.4	8
1029	Temperature dependence of the electrical and thermal transport in $FeCo/Cu/Ni_{80}Fe_{20}$ spin valves. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 405302.	1.3	4
1030	Ionic Modulation of the Interfacial Magnetism in a Bilayer System Comprising a Heavy Metal and a Magnetic Insulator for Voltage-Tunable Spintronic Devices. <i>Advanced Materials</i> , 2018, 30, e1802902.	11.1	22
1031	Solution-Processed Ferrimagnetic Insulator Thin Film for the Microelectronic Spin Seebeck Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28608-28614.	4.0	9
1032	Spin-flip enhanced thermoelectricity in superconductor-ferromagnet bilayers. <i>New Journal of Physics</i> , 2018, 20, 073034.	1.2	12
1033	Ultrafast spin current generated by electron-magnon scattering in bulk of ferromagnets. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 090307.	0.8	12
1034	Thermally induced spin polarization in a magnetized two-dimensional electron gas with Rashba spin-orbit interaction. <i>Physical Review B</i> , 2018, 98, .	1.1	11
1035	Anomalous Hall effect in $Pt/Tb_3Fe_5O_{12}$ heterostructure: Effect of compensation point. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 468, 235-240.	1.0	20
1036	Generalized Fourier law and anomalous Righi-Leduc effect in a ferromagnet. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 3115-3119.	0.9	3
1037	Relationship between anomalous Ettingshausen effect and anomalous Nernst effect in an FePt thin film. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 254001.	1.3	35
1038	Thermoelectric effects of resonant magnetic tunnel junctions. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 237-245.	1.0	2

#	ARTICLE	IF	CITATIONS
1039	Spin caloritronics in spin semiconducting armchair graphene nanoribbons. <i>Physical Review B</i> , 2018, 97, .	1.1	34
1040	Competition of lattice and spin excitations in the temperature dependence of spin-wave properties. <i>Physical Review B</i> , 2018, 97, .	1.1	5
1041	Hot-electron transport and ultrafast magnetization dynamics in magnetic multilayers and nanostructures following femtosecond laser pulse excitation. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	19
1042	Spin caloric effects in antiferromagnets assisted by an external spin current. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 264004.	1.3	10
1043	Generation of Spin Current from Lattice Distortion Dynamics: Spin-Orbit Routes. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 073706.	0.7	10
1044	Temperature dependent spin transport investigations in single layer VTe ₂ . <i>Journal of Alloys and Compounds</i> , 2019, 770, 345-349.	2.8	12
1045	Half-wave rectification of ac-magnetic-field effects by mixing thermal spin and charge currents in a NiO/Pt nanostructure. <i>Applied Physics Letters</i> , 2019, 115, 062402.	1.5	0
1046	Spin-orbit coupling induced robust spin-Seebeck effect and pure thermal spin currents in achiral molecule systems. <i>Physical Review B</i> , 2019, 100, .	1.1	16
1047	Spin transport in antiferromagnetic insulators. <i>Chinese Physics B</i> , 2019, 28, 088504.	0.7	5
1048	Enhanced magnetoresistance in NiFe/GaAs/Fe hybrid magnon valve. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	1
1049	Molecular Boolean logic gates based on spin caloritronic transport properties of planar four-coordinate Fe complex-based molecular devices. <i>Chemical Physics Letters</i> , 2019, 733, 136671.	1.2	4
1050	An Improved Nearest Point based Location Routing Protocol for Maritime Wireless Mesh Networks. , 2019, , .		4
1051	Perspectives on spin hydrodynamics in ferromagnetic materials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125858.	0.9	8
1052	Effective Spin-Mixing Conductance of Heavy-Metal-Ferromagnet Interfaces. <i>Physical Review Letters</i> , 2019, 123, 057203.	2.9	124
1053	Influence of semiconductor crystallinity on a ¹²⁵ FeSi ₂ sensitized thermal cell. <i>Solid-State Electronics</i> , 2019, 158, 70-74.	0.8	9
1054	Skyrmions and Hall transport. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 383001.	0.7	15
1055	Pure spin current generated in thermally driven molecular magnetic junctions: a promising mechanism for thermoelectric conversion. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19037-19044.	5.2	92
1056	All-Optical Cryogenic Thermometry Based on Nitrogen-Vacancy Centers in Nanodiamonds. <i>Physical Review Applied</i> , 2019, 12, .	1.5	33

#	ARTICLE	IF	CITATIONS
1057	Enhanced Spin Seebeck Efficiency in Closed Triple Quantum Dots Ring with Spin-Dependent Interdot Couplings. International Journal of Theoretical Physics, 2019, 58, 2757-2769.	0.5	3
1058	Electrical-field tuned thermoelectric performance of graphene nanoribbon with sawtooth edges. Nanotechnology, 2019, 30, 445204.	1.3	13
1059	Ferromagnetic resonance studies of strain tuned Bi:YIG films. Journal of Physics Condensed Matter, 2019, 31, 435802.	0.7	16
1060	Spin transport in an insulating ferrimagnetic-antiferromagnetic-ferrimagnetic trilayer as a function of temperature. AIP Advances, 2019, 9, .	0.6	9
1061	Spin-valley filter effect and Seebeck effect in a silicene based antiferromagnetic/ferromagnetic junction. New Journal of Physics, 2019, 21, 093044.	1.2	19
1062	Enhanced spin-dependent thermopower in a double-quantum-dot sandwiched between two-dimensional electron gases*. Chinese Physics B, 2019, 28, 107305.	0.7	1
1063	The influence of the internal domain wall structure on spin wave band structure in periodic magnetic stripe domain patterns. Solid State Physics, 2019, , 79-132.	1.3	10
1064	Spintronics – A mini review. Superlattices and Microstructures, 2019, 136, 106322.	1.4	17
1065	Identification of advanced spin-driven thermoelectric materials via interpretable machine learning. Npj Computational Materials, 2019, 5, .	3.5	51
1066	Long lifetime of thermally excited magnons in bulk yttrium iron garnet. Physical Review B, 2019, 100, .	1.1	18
1067	Characterization of YIG thin films and vacuum annealing effect by polarized neutron reflectometry and magnetotransport measurements. Applied Physics Letters, 2019, 115, .	1.5	22
1068	Experimental Demonstration of Spintronic Broadband Microwave Detectors and Their Capability for Powering Nanodevices. Physical Review Applied, 2019, 11, .	1.5	49
1069	A review of current research on spin currents and spin-orbit torques. Chinese Physics B, 2019, 28, 107105.	0.7	8
1070	All-oxide ferromagnetic resonance and spin pumping with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Srlr</\text{mml:mi}>\langle \text{mml:msub}>\langle \text{mml:mi mathvariant="normal">O</\text{mml:mi}>\langle \text{mml:mn}>3</\text{mml:mn}>\langle \text{mml:msub}>\langle \text{mml:mrow}>\langle \text{mml:math}>$	1.1	15
1071	Parametric spin pumping into an antiferromagnetic insulator. Physical Review B, 2019, 100, .	1.1	1
1072	Spin Seebeck Imaging of Spin-Torque Switching in Antiferromagnetic $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Pt</\text{mml:mi}>\langle \text{mml:mo}>/</\text{mml:mo}>\langle \text{mml:mi}>NiO</\text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:math}>$ Heterostructures. Physical Review X, 2019, 9, .	2.8	58
1073	Alloying-induced spin Seebeck effect and spin figure of merit in Pt-based bimetallic atomic wires of noble metals. Physical Chemistry Chemical Physics, 2019, 21, 20965-20980.	1.3	4
1074	Spin Seebeck effect in paramagnets and antiferromagnets at elevated temperatures. Physical Review B, 2019, 100, .	1.1	14

#	ARTICLE	IF	CITATIONS
1075	Layered oxygen-containing thermoelectric materials: Mechanisms, strategies, and beyond. <i>Materials Today</i> , 2019, 29, 68-85.	8.3	66
1076	Variation of the giant intrinsic spin Hall conductivity of Pt with carrier lifetime. <i>Science Advances</i> , 2019, 5, eaav8025.	4.7	73
1077	Investigation of Thermoelectric Generators for Alternative Power Supply Systems. , 2019, , .		1
1078	Strain-induced switching of heat current direction generated by magneto-thermoelectric effects. <i>Scientific Reports</i> , 2019, 9, 13197.	1.6	11
1079	First Principle Study of Temperature-Dependent Magnetoresistance and Spin Filtration Effect in WS ₂ Nanoribbon. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 39248-39253.	4.0	18
1080	A review on thermoelectric energy harvesting from asphalt pavement: Configuration, performance and future. <i>Construction and Building Materials</i> , 2019, 228, 116818.	3.2	57
1081	Thermoelectric properties of composite films from multi-walled carbon nanotubes and ethyl cellulose doped with heteroatoms. <i>Synthetic Metals</i> , 2019, 257, 116190.	2.1	16
1082	Broadband Optical Detection Using the Spin Seebeck Effect. <i>Physical Review Applied</i> , 2019, 12, .	1.5	5
1083	Detection of interfacial spin accumulation induced by anomalous Hall effect in ferromagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 477, 209-213.	1.0	2
1084	Recent Advances in Molecular Spintronics: Multifunctional Spintronic Devices. <i>Advanced Materials</i> , 2019, 31, e1805355.	11.1	96
1085	Structural and magnetic properties of MnCoGe ferromagnetic thin films produced by reactive diffusion. <i>Applied Surface Science</i> , 2019, 488, 303-315.	3.1	3
1086	Entropy production by thermodynamic currents in ambipolar conductors with identical spin dynamics characteristics between holes and electrons. <i>Applied Physics Express</i> , 2019, 12, 053004.	1.1	4
1087	Growth optimization and magnetic behavior of cerium substituted Yttrium Iron Garnet (Ce _x Y _{3-x} Fe ₅ O ₁₂). <i>Materials Research Express</i> , 2019, 6, 086452.	0.8	0
1088	Spin Seebeck mechanical force. <i>Nature Communications</i> , 2019, 10, 2616.	5.8	33
1089	Spin Seebeck effect in insulating SrFeO ₃ films. <i>Applied Physics Letters</i> , 2019, 114, 242403.	1.5	9
1090	Influence of annealing on spin pumping in sputtered deposited Co/Pt bilayer thin films. <i>Physica B: Condensed Matter</i> , 2019, 570, 254-258.	1.3	8
1091	Transition metal-doped janus monolayer SMOSe with excellent thermal spin filter and spin Seebeck effect. <i>Applied Surface Science</i> , 2019, 491, 750-756.	3.1	17
1092	Spin thermoelectricity in dualhydrogenated zigzag silicene nanoribbons with surface adsorptions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 2492-2498.	0.9	4

#	ARTICLE	IF	CITATIONS
1093	Magnon quantum anomalies in Weyl ferromagnets. <i>Physical Review B</i> , 2019, 99, .	1.1	12
1094	Spin caloritronic transport properties and thermal spin logic gates in Mn-porphyrin trimer-based molecular junction. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165381.	1.0	6
1095	Collective induced antidiffusion effect and general magnon Boltzmann transport theory. <i>Physical Review B</i> , 2019, 99, .	1.1	8
1096	Spin Seebeck effect in polycrystalline yttrium iron garnet pellets prepared by the solid-state method. <i>Europhysics Letters</i> , 2019, 126, 37001.	0.7	13
1097	Vectorial observation of the spin Seebeck effect in epitaxial NiFe ₂ O ₄ thin films with various magnetic anisotropy contributions. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	12
1098	Seeking large Seebeck effects in LaX(X = Mn and Co)O ₃ /SrTiO ₃ superlattices by exploiting high spin-polarized effects. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14973-14983.	1.3	7
1099	Direct and inverse superspin Hall effect in two-dimensional systems: Electrical detection of spin supercurrents. <i>Physical Review B</i> , 2019, 99, .	1.1	6
1100	High-performance YbAl ₃ /Bi _{0.5} Sb _{1.5} Te ₃ artificially tilted multilayer thermoelectric devices via material genome engineering method. <i>Journal of Power Sources</i> , 2019, 430, 193-200.	4.0	12
1101	Thermally Assisted Magneto Resistance and Spin-Filtration in Single Layer MoS ₂ . <i>IEEE Nanotechnology Magazine</i> , 2019, 18, 467-472.	1.1	3
1102	Rectification of Spin Current in Inversion-Asymmetric Magnets with Linearly Polarized Electromagnetic Waves. <i>Physical Review Letters</i> , 2019, 122, 197702.	2.9	17
1103	Skew scattering dominated anomalous Nernst effect in La _{1-x} Na _x MnO ₃ . <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	7
1104	Enhancement of spin current generation in epitaxial $\hat{\Gamma}_\pm$ -Ta/CoFeB bilayer. <i>Physical Review B</i> , 2019, 99, .	1.1	22
1105	Thermal Spin Transport Properties of F/Cl Edge-Modified Zigzag Graphene Nanoribbons. <i>Journal of Electronic Materials</i> , 2019, 48, 3958-3962.	1.0	1
1106	Spin Seebeck voltage enhancement by Mn system metals insertion at the interface between YIG and nonmagnetic layer. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SBBI04.	0.8	8
1107	Ag ₂ S-Sensitized Thermal Cell. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12135-12141.	1.5	10
1108	Spin torque nano-oscillator driven by combined spin injection from tunneling and spin Hall current. <i>Communications Physics</i> , 2019, 2, .	2.0	38
1109	Low temperature divergence in the AHE and AMR of ultra-thin Pt/Co/Pt trilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 485, 314-319.	1.0	1
1110	Towards Oxide Electronics: a Roadmap. <i>Applied Surface Science</i> , 2019, 482, 1-93.	3.1	236

#	ARTICLE	IF	CITATIONS
1111	Spin Seebeck effect and phonon energy transfer in heterostructures containing layers of a normal metal and a ferromagnetic insulator. <i>Physical Review B</i> , 2019, 99, .	1.1	5
1112	Photo-induced anomalous Hall effect in nickel thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 485, 82-84.	1.0	5
1113	Chiral Y junction of quantum spin chains. <i>Nuclear Physics B</i> , 2019, 941, 794-837.	0.9	10
1114	All-optical detection of interfacial spin transparency from spin pumping in \hat{I}^2 -Ta/CoFeB thin films. <i>Science Advances</i> , 2019, 5, eaav7200.	4.7	60
1115	Comment on "Optical detection of transverse spin-Seebeck effect in permalloy film using Sagnac interferometer microscopy". <i>Physical Review B</i> , 2019, 99, .	1.1	2
1116	Reply to "Comment on "Optical detection of transverse spin-Seebeck effect in permalloy film using Sagnac interferometer microscopy"™". <i>Physical Review B</i> , 2019, 99, .	1.1	0
1117	Thermal Spin-Valve Effect in Magnetic Multi-layered Nanowires. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019, 32, 3109-3113.	0.8	1
1118	Spin Seebeck effect in antiferromagnet nickel oxide in wide ranges of temperature and magnetic field. <i>Physical Review B</i> , 2019, 99, .	1.1	19
1119	Interface-induced anomalous Nernst effect in Fe ₃ O ₄ /Pt-based heterostructures. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	32
1120	Energy-harvesting materials based on the anomalous Nernst effect. <i>Science and Technology of Advanced Materials</i> , 2019, 20, 262-275.	2.8	122
1121	The Longitudinal Spin Seebeck Coefficient of Fe. <i>IEEE Magnetics Letters</i> , 2019, 10, 1-5.	0.6	6
1122	Systematic Investigation of Anisotropic Magneto-Peltier Effect and Anomalous Ettingshausen Effect in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mi} \rangle \text{Ni} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Thin Films. <i>Physical Review Applied</i> , 2019, 11, .	1.5	28
1123	Anomalous Ettingshausen effect in ferrimagnetic Co-Gd. <i>Applied Physics Express</i> , 2019, 12, 023006.	1.1	20
1124	Inverse spin Hall effect in ITO/YIG excited by spin pumping and spin Seebeck experiments. <i>Chinese Physics B</i> , 2019, 28, 017201.	0.7	0
1125	Spin-related thermoelectric transport in wedge-shaped graphene nanoribbon junctions. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 112, 109-114.	1.3	2
1126	Spin Caloritronic Transport of Tree-Saw Graphene Nanoribbons. <i>Chinese Physics Letters</i> , 2019, 36, 017301.	1.3	1
1127	Gate voltage tuning of spin current in Pt/yttrium iron garnet heterostructure. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 175304.	1.3	5
1128	Spin-orbit torque and spin Hall magnetoresistance in Pt/Co/Ru/AlO _x multilayers with modifying spin transport at interfaces. <i>Physica Scripta</i> , 2019, 94, 085703.	1.2	4

#	ARTICLE	IF	CITATIONS
1129	Microscopic theory of spin transport at the interface between a superconductor and a ferromagnetic insulator. <i>Physical Review B</i> , 2019, 99, .	1.1	48
1130	Magnetization-direction-dependent inverse spin Hall effect observed in IrMn/NiFe/Cu/YIG multilayer structure. <i>Chinese Physics B</i> , 2019, 28, 037202.	0.7	6
1131	Thermopower generation and thermoelectric cooling in a Kane-Mele normal-insulator-superconductor nano-junction. <i>Europhysics Letters</i> , 2019, 125, 47003.	0.7	1
1132	Nearly isotropic spin-pumping related Gilbert damping in $\text{Pt}/\text{Cu}/\text{Pt}$ multilayers. <i>Physical Review B</i> , 2019, 99, .		
1133	Spin Mixing Dynamics in a Spin-Orbit Coupled Bose-Einstein Condensate. <i>Journal of Low Temperature Physics</i> , 2019, 195, 450-459.	0.6	2
1134	Tunable perpendicular magnetic anisotropy in epitaxial Y3Fe5O12 films. <i>APL Materials</i> , 2019, 7, .	2.2	32
1135	Observation of enhanced thermopower due to spin fluctuation in weak itinerant ferromagnet. <i>Science Advances</i> , 2019, 5, eaat5935.	4.7	143
1136	Frontiers of magnetic force microscopy. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	156
1137	Transition metal-containing molecular devices: controllable single-spin negative differential thermoelectric resistance effects under gate voltages. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5243-5252.	1.3	8
1138	Investigation of spin Seebeck effect and magnetic damping in nanometer thick Ce0.5Y2.5Fe5O12 films. <i>Applied Surface Science</i> , 2019, 480, 1025-1034.	3.1	10
1139	Machine-learning guided discovery of a new thermoelectric material. <i>Scientific Reports</i> , 2019, 9, 2751.	1.6	74
1140	CuPt Alloy Thin Films for Application in Spin Thermoelectrics. <i>Scientific Reports</i> , 2019, 9, 3133.	1.6	22
1141	Giant Seebeck magnetoresistance triggered by electric field and assisted by a valley through a ferromagnetic/antiferromagnetic junction in heavy group-IV monolayers. <i>Physical Review B</i> , 2019, 99, .	1.1	19
1142	The Thermal, Electrical and Thermoelectric Properties of Graphene Nanomaterials. <i>Nanomaterials</i> , 2019, 9, 218.	1.9	52
1143	Direct observation of the reciprocity between spin current and phonon interconversion. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	12
1144	Generation of DC, AC, and Second-Harmonic Spin Currents by Electromagnetic Fields in an Inversion-Asymmetric Antiferromagnet. <i>Condensed Matter</i> , 2019, 4, 92.	0.8	4
1145	Room temperature and low-field resonant enhancement of spin Seebeck effect in partially compensated magnets. <i>Nature Communications</i> , 2019, 10, 5162.	5.8	25
1146	Unidirectional Seebeck effect in magnetic topological insulators. <i>Physical Review B</i> , 2019, 100, .	1.1	3

#	ARTICLE	IF	CITATIONS
1147	Bias current dependence of superconducting transition temperature in superconducting spin-valve nanowires. <i>Physical Review B</i> , 2019, 100, .	1.1	2
1148	Electric-field-induced onâ€“off switching of anomalous Ettingshausen effect in ultrathin Co films. <i>Applied Physics Express</i> , 2019, 12, 123003.	1.1	8
1149	Distinct Detection of Thermally Induced Spin Voltage in Pt/WS ₂ /Ni ₈₁ Fe ₁₉ by the Inverse Spin Hall Effect. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 48533-48539.	4.0	24
1150	Thermoelectric microscopy of magnetic skyrmions. <i>Scientific Reports</i> , 2019, 9, 18443.	1.6	14
1151	Magnon gravitomagnetolectric effect in noncentrosymmetric antiferromagnetic insulators. <i>Physical Review B</i> , 2019, 100, .	1.1	7
1152	Effects of magnetic anisotropy on spin and thermal transport in classical antiferromagnets on the square lattice. <i>Physical Review B</i> , 2019, 100, .	1.1	7
1153	Role of spin mixing conductance in determining thermal spin pumping near the ferromagnetic phase transition in EuO _{1-x} and La ₂ NiMnO ₆ . <i>Physical Review B</i> , 2019, 100, .	1.1	13
1154	Temperature dependence of the magnon-phonon energy relaxation time in a ferromagnetic insulator. <i>Physical Review B</i> , 2019, 100, .	1.1	10
1155	Alternating current-induced interfacial spin-transfer torque. <i>Physical Review B</i> , 2019, 100, .	1.1	1
1156	Tunnel magneto-Seebeck effect. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 133001.	1.3	17
1157	Spincaloritronic Measurements: A Round Robin Comparison of the Longitudinal Spin Seebeck Effect. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 1765-1773.	2.4	19
1158	Experimental setup for anisotropic thermoelectric transport measurements using MPMS. <i>Measurement Science and Technology</i> , 2019, 30, 025602.	1.4	4
1159	Towards ultimate impedance of phonon transport by nanostructure interface. <i>APL Materials</i> , 2019, 7, 013102.	2.2	27
1160	Microwave amplification in a magnetic tunnel junction induced by heat-to-spin conversion at the nanoscale. <i>Nature Nanotechnology</i> , 2019, 14, 40-43.	15.6	26
1161	Observation of Longitudinal Spin Seebeck Voltage in YIG Films Chemically Prepared by Co-Precipitation and Spin Coating. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	1.2	5
1162	Ionic Modulation of Interfacial Magnetism in Light Metal/Ferromagnetic Insulator Layered Nanostructures. <i>Advanced Functional Materials</i> , 2019, 29, 1805592.	7.8	12
1163	Physical origins of the magnetoresistance of platinum in contact with polycrystalline antiferromagnetic NiO. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 475, 586-592.	1.0	2
1164	Influence of spin-orbit and spin-Hall effects on the spin-Seebeck current beyond linear response: A Fokker-Planck approach. <i>Physical Review B</i> , 2019, 99, .	1.1	11

#	ARTICLE	IF	CITATIONS
1165	Comparative measurements of local and nonlocal spin Seebeck effect in YIG/Pt nano-thick films. Journal of Magnetism and Magnetic Materials, 2019, 476, 166-170.	1.0	2
1166	Generation and Detection of Pure Spin Current in an H -Shaped Structure of a Single Metal. Physical Review Letters, 2019, 122, 016804.	2.9	13
1167	The observation of inherent spin Seebeck effect in Rh/YIG hybrid structure. Current Applied Physics, 2019, 19, 411-417.	1.1	1
1168	One dimensional Cherenkov processes in ferromagnetic insulator. Journal of Applied Physics, 2019, 125, 023909.	1.1	1
1169	Spin caloric transport from density-functional theory. Journal Physics D: Applied Physics, 2019, 52, 073001.	1.3	13
1170	Magnetic and thermal properties of ferromagnetic insulator: Yttrium Iron Garnet. Ceramics International, 2019, 45, 2418-2424.	2.3	15
1171	Spin pumping from nuclear spin waves. Nature Physics, 2019, 15, 22-26.	6.5	19
1172	Localized magnetic state in the Rashba model. Physica B: Condensed Matter, 2019, 554, 1-4.	1.3	0
1173	Temperature Dependence of a Perovskite-Sensitized Solar Cell: A Sensitized α -Thermal Cell. ACS Applied Energy Materials, 2019, 2, 13-18.	2.5	14
1174	Spin Seebeck Effect in a Multiple Quantum Dot Molecule with Spin-Dependent Interdot Coupling. Journal of Low Temperature Physics, 2019, 194, 235-245.	0.6	7
1175	Thickness dependence of transverse thermoelectric voltage in Co ₄₀ Fe ₆₀ /YIG magnetic junctions. Journal of Magnetism and Magnetic Materials, 2019, 471, 439-443.	1.0	7
1176	Thermoelectric transport properties of magnetic carbon-based organic chains. Chemical Physics, 2020, 528, 110524.	0.9	2
1177	Injection of spin current at the superconductor/ferromagnetic insulator interface. Journal of Magnetism and Magnetic Materials, 2020, 494, 165813.	1.0	4
1178	Asymmetric nonlocal signal induced by thermoelectric effects in a lateral spin valve. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 117, 113738.	1.3	0
1179	Signature of spin-dependent Seebeck effect in dynamical spin injection of metallic bilayer structures. JPhys Materials, 2020, 3, 014005.	1.8	5
1180	Spin analogs of thermo-magnetoelectric phenomena for heat switches. Journal of Magnetism and Magnetic Materials, 2020, 496, 165949.	1.0	3
1181	Women in Nanotechnology. Women in Engineering and Science, 2020, , .	0.2	1
1182	Power Generation Using Solid-State Heat Engines. Women in Engineering and Science, 2020, , 71-83.	0.2	0

#	ARTICLE	IF	CITATIONS
1183	Cost-Effective Experimental Setup for Studies of Spin Seebeck Effect and Electrical Transport in Thermoelectric Materials. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3587-3594.	2.4	3
1184	Spin-Dependent Electronic and Thermoelectric Transport Properties for a Sawtoothlike Graphene Nanoribbon Coupled to Two Ferromagnetic Leads. Journal of Low Temperature Physics, 2020, 198, 56-69.	0.6	3
1185	Application of magnon coherent states in spintronics. Journal of Magnetism and Magnetic Materials, 2020, 498, 166091.	1.0	1
1186	First principle study of temperature-dependent spin transport in VSe2 monolayer. Applied Surface Science, 2020, 504, 144411.	3.1	19
1187	Magneto thermoelectric properties of transition metal.bis(dithiolene) wires. Physica B: Condensed Matter, 2020, 580, 411825.	1.3	1
1188	Nanoscale Organic Thermoelectric Materials: Measurement, Theoretical Models, and Optimization Strategies. Advanced Functional Materials, 2020, 30, 1903873.	7.8	97
1189	Anomalous Nernst effect in Co2MnGa thin films with perpendicular magnetic anisotropy. Journal of Magnetism and Magnetic Materials, 2020, 500, 166397.	1.0	15
1190	Graphene-based wearable piezoresistive physical sensors. Materials Today, 2020, 36, 158-179.	8.3	262
1191	Observation of long spin lifetime in MAPbBr ₃ single crystals at room temperature. JPhys Materials, 2020, 3, 015012.	1.8	15
1192	Enhanced Spin Transport of Conjugated Polymer in the Semiconductor/Insulating Polymer Blend. ACS Applied Materials & Interfaces, 2020, 12, 2708-2716.	4.0	10
1193	Largely enhanced thermoelectric effect and pure spin current in silicene-based devices under hydrogen modification. Nanoscale, 2020, 12, 277-288.	2.8	5
1194	Influence on the Gilbert damping of yttrium-iron-garnet films by the spin-pumping effect. Materials Science in Semiconductor Processing, 2020, 107, 104821.	1.9	2
1195	Thermally controlled confinement of spin wave field in a magnonic YIG waveguide. Journal of Magnetism and Magnetic Materials, 2020, 498, 166154.	1.0	3
1196	Longitudinal spin Seebeck effect in pyrochlore iridates with bulk and interfacial Dzyaloshinskii-Moriya interaction. Physical Review B, 2020, 101, .	1.1	5
1197	The recent advances in self-powered medical information sensors. Informa~Material~jly, 2020, 2, 212-234.	8.5	96
1198	Thermoelectric behaviors of fly ash and metakaolin based geopolymer. Construction and Building Materials, 2020, 237, 117757.	3.2	27
1199	Near-room-temperature spin caloritronics in a magnetized and defective zigzag MoS2 nanoribbon. Journal of Computational Electronics, 2020, 19, 137-146.	1.3	4
1200	Resonant nanodiffraction x-ray imaging reveals role of magnetic domains in complex oxide spin caloritronics. Science Advances, 2020, 6, .	4.7	3

#	ARTICLE	IF	CITATIONS
1201	Rashba Effect Maximizes Thermoelectric Performance of GeTe Derivatives. <i>Joule</i> , 2020, 4, 2030-2043.	11.7	138
1202	Fingerprint of the inverse Rashba-Edelstein effect at heavy-metal/Cu interfaces. <i>Physical Review B</i> , 2020, 102, .	1.1	12
1203	Controlled single-spin transport in thermally driven molecular devices containing graphene electrodes modulated by quantum resonance. <i>Physical Review B</i> , 2020, 102, .	1.1	3
1204	Spin insulatronics. <i>Physics Reports</i> , 2020, 885, 1-27.	10.3	83
1205	Resonant amplification of the inverse Faraday effect magnetization dynamics of time reversal symmetric insulators. <i>Physical Review B</i> , 2020, 102, .	1.1	6
1206	Study on magnetic and electrical properties of CoFeTaBO films with different oxygen content based on two-state model. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 515, 167285.	1.0	0
1207	Temperature dependence of magnetic exchange stiffness in iron and nickel. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 39LT01.	1.3	16
1208	Even-odd effect of spin-dependent transport and thermoelectric properties for ferromagnetic zigzag phosphorene nanoribbons under an electric field. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 435502.	0.7	7
1209	Valley caloritronics in a photodriven heterojunction of Dirac materials. <i>Physical Review B</i> , 2020, 102, .	1.1	11
1210	Identification of spin effects in the anomalous Righi-â€œLeduc effect in ferromagnetic metals. <i>Scientific Reports</i> , 2020, 10, 11732.	1.6	1
1211	Magnon current generation by dynamical distortion. <i>Physical Review B</i> , 2020, 102, .	1.1	2
1212	Berezinskii-Kosterlitz-Thouless transition effects on spin current: The normal-metal-â€œinsulating-ferromagnet junction case. <i>Physical Review B</i> , 2020, 102, .	1.1	0
1213	Generation of charge current from magnetization oscillation via the inverse of voltage-controlled magnetic anisotropy effect. <i>Science Advances</i> , 2020, 6, eabc2618.	4.7	6
1214	Amplification of Spin Thermoelectric Signals in Multilayer Spin Thermopiles. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2906-2912.	2.0	4
1215	Spin-caloritronic transport in hexagonal graphene nanoflakes. <i>Physical Review B</i> , 2020, 102, .	1.1	12
1216	Investigation of Spin Transport Properties in Perpendicularly Magnetized $\text{MoS}_2/\text{Pt}/\text{Co/Ni}$ Multilayers. <i>Physical Review Applied</i> , 2020, 12, 044002.	1.5	3
1217	Giant spin signals in chemically functionalized multiwall carbon nanotubes. <i>Science Advances</i> , 2020, 6, eaba5494.	4.7	4
1218	Measurement of the heat flux normalized spin Seebeck coefficient of thin films as a function of temperature. <i>Review of Scientific Instruments</i> , 2020, 91, 073910.	0.6	4

#	ARTICLE	IF	CITATIONS
1219	Dependence of Gilbert damping constant on microstructure in nanocrystalline YIG coatings prepared by co-precipitation and spin-coating on a Si substrate. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 513, 167253.	1.0	19
1220	Thermoelectric transport properties of ferromagnetic graphene with C/T -invariant quantum spin Hall effect. <i>Physical Review B</i> , 2020, 102, .		
1221	Electron Spin-Vorticity Coupling in Pipe Flows at Low and High Reynolds Number. <i>Physical Review Applied</i> , 2020, 14, .	1.5	14
1222	Combining Spin-Seebeck and Nernst Effects in Aligned MnBi/Bi Composites. <i>Nanomaterials</i> , 2020, 10, 2083.	1.9	5
1223	Spin-orbit torque generation in $NiFeO_2$ bilayers. <i>Physical Review B</i> , 2020, 102, .	1.1	13
1224	Local Spin Seebeck Imaging with a Scanning Thermal Probe. <i>Physical Review Applied</i> , 2020, 14, .	1.5	5
1225	Enhancement of the Spin Hall Angle by Interdiffusion of Atoms in Co_2O_3 . <i>Physical Review Applied</i> , 2020, 14, .		
1226	Spin Wave Excitation, Detection, and Utilization in the Organic-Based Magnet, V(TCNE) (TCNE = Tetracyanoethylene). <i>Advanced Materials</i> , 2020, 32, e2002663.	11.1	17
1227	Spin-current dissipation in a thin-film bilayer ferromagnet/antiferromagnet. <i>Low Temperature Physics</i> , 2020, 46, 813-819.	0.2	1
1228	Tolerance of spin-Seebeck thermoelectricity against irradiation by swift heavy ions. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	3
1229	Evidence for spin-dependent energy transport in a superconductor. <i>Nature Communications</i> , 2020, 11, 4336.	5.8	7
1230	Influence of interface layer insertion on the spin Seebeck effect and the spin Hall magnetoresistance of $Y_3Fe_5O_{12}$ bilayer systems. <i>Physical Review B</i> , 2020, 102, .		
1231	Magnon antibunching in a nanomagnet. <i>Physical Review B</i> , 2020, 102, .	1.1	20
1232	Magnon and spin transition contribution in heat capacity of ferromagnetic Cr-doped MnTe: Experimental evidence for a paramagnetic spin-caloritronic effect. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	13
1233	Magnon-drag thermoelectric transport with skyrmion structure. <i>Applied Physics Letters</i> , 2020, 117, 062404.	1.5	4
1234	Highly nonlinear frequency-dependent spin-wave resonance excited via spin-vorticity coupling. <i>Physical Review B</i> , 2020, 102, .	1.1	18
1235	Impact of interfacial chemical state on spin pumping and inverse spin Hall effect in YIG/Pt hybrids. <i>Physical Review B</i> , 2020, 102, .	1.1	8
1236	Performance evaluation of novel solar-powered domestic air cooler with Peltier modules. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 4797-4807.	0.7	1

#	ARTICLE	IF	CITATIONS
1237	Imprinting and driving electronic orbital magnetism using magnons. Communications Physics, 2020, 3, .	2.0	11
1238	Nonsymmetric spin pumping in a multiferroic heterostructure. Physical Review B, 2020, 102, .	1.1	3
1239	Large Inverse Spin Hall Effect in Co Alloys due to Spin Seebeck Effect. Physical Review Applied, 2020, 14, .	1.5	15
1240	Magnon-mediated spin currents in Tm3Fe5O12/Pt with perpendicular magnetic anisotropy. Applied Physics Letters, 2020, 117, .	1.5	10
1241	Altes und Neues zu thermoelektrischen Effekten und Thermoelementen. , 2020, , .		0
1242	Negligible thermal contributions to the spin pumping signal in ferromagnetic metal-platinum bilayers. Journal of Applied Physics, 2020, 127, .	1.1	7
1243	Modulation of Magnetization Precession Trajectories by Perpendicular Magnetic Anisotropy in CoFeB Thin Films. IEEE Transactions on Magnetics, 2020, 56, 1-5.	1.2	3
1244	Spin Seebeck effect in bipolar magnetic semiconductor: A case of magnetic MoS2 nanotube. Journal of Advanced Research, 2020, 24, 391-396.	4.4	10
1245	Anomalous Nernst Effect in Epitaxial $\text{L}_{1-x}\text{Mn}_x\text{O}$ Bilayers with the Presence of Spin Hall Effect. Physical Review Applied, 2020, 13, .	1.5	14
1246	Composition dependence of spin Seebeck voltage in $\text{YIG/Pt}_{100\text{\AA}}$, $\text{Ru}_{100\text{\AA}}$, $\text{Pt}_{100\text{\AA}}$, $\text{Cu}_{0.5}\text{Ru}_{0.5}$ bilayers with the Presence of Spin Hall Effect. Japanese Journal of Applied Physics, 2020, 59, 073001.	1.5	38
1247	Composition dependence of spin Seebeck voltage in $\text{YIG/Pt}_{100\text{\AA}}$, $\text{Ru}_{100\text{\AA}}$, $\text{Pt}_{100\text{\AA}}$, $\text{Cu}_{0.5}\text{Ru}_{0.5}$ bilayers with the Presence of Spin Hall Effect. Japanese Journal of Applied Physics, 2020, 59, 073001.	0.8	4
1248	Giant spin Seebeck effect in two-dimensional ferromagnetic CrI_3 monolayer. Nanotechnology, 2020, 31, 455404.	1.3	11
1249	Current-Induced In-Plane Magnetization Switching in a Biaxial Ferrimagnetic Insulator. Physical Review Applied, 2020, 13, .	1.5	14
1250	Analysis of surface acoustic wave induced spin resonance of a spin accumulation. Physical Review B, 2020, 101, .	1.1	1
1251	Spin-Dependent Thermoelectric Power of Nanoislands. Nano Letters, 2020, 20, 4910-4915.	4.5	6
1252	Giant spin hydrodynamic generation in laminar flow. Nature Communications, 2020, 11, 3009.	5.8	18
1253	Impact of the crystal orientation on spin-orbit torques in Fe/Pd bilayers. Journal Physics D: Applied Physics, 2020, 53, 355003.	1.3	4
1254	Simultaneously Enhanced Spin Hall Effect and Spin-Mixing Conductance in a $\text{Y}_3\text{Fe}_3\text{O}_{12}$ Bilayer. Physical Review Applied, 2020, 13, .	1.5	3

#	ARTICLE	IF	CITATIONS
1255	Spin Seebeck effect detection by harmonic analysis. Applied Physics Letters, 2020, 116, 242402.	1.5	4
1256	Low-damping flexible Y ₃ Fe ₅ O ₁₂ thin films for tunable RF/microwave processors. Materials Horizons, 2020, 7, 1558-1565.	6.4	16
1257	Magnetization switching induced by magnetic field and electric current in perpendicular TbIG/Pt bilayers. Applied Physics Letters, 2020, 116, .	1.5	17
1258	Heat flux sensing by anomalous Nernst effect in FeAl thin films on a flexible substrate. Applied Physics Express, 2020, 13, 043001.	1.1	54
1259	Review on spintronics: Principles and device applications. Journal of Magnetism and Magnetic Materials, 2020, 509, 166711.	1.0	711
1260	Effect of asymmetric Pt thickness on the inverse spin Hall voltage in Pt/Co/Pt trilayers. AIP Advances, 2020, 10, .	0.6	2
1261	Spin excitations in laser-molecular-beam epitaxy-grown nanosized YIG films: towards low relaxation and desirable magnetization profile. Journal Physics D: Applied Physics, 2020, 53, 265003.	1.3	6
1262	The spin Hall effect of Bi-Sb alloys driven by thermally excited Dirac-like electrons. Science Advances, 2020, 6, eaay2324.	4.7	74
1263	Strain-induced enhancement of the Seebeck effect in magnetic tunneling junctions via interface resonant tunneling: Ab initio study. Physical Review B, 2020, 101, .	1.1	4
1264	Effects of disorder on the transport and thermoelectric properties of silicene superlattices. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114100.	1.3	9
1265	Landau-Lifshitz-Bloch Approach for Magnetization Dynamics Close to Phase Transition. , 2020, , 867-893.		0
1266	Computational study of spin caloritronics in a pristine and defective antimonene nanoribbon. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 120, 114083.	1.3	6
1267	Study on thermoelectric properties of CrI ₃ monolayer. Applied Physics Express, 2020, 13, 045001.	1.1	10
1268	The effect of graphene interlayer at Pt/YIG interface on spin pumping. Journal of Alloys and Compounds, 2020, 829, 154534.	2.8	8
1269	Enhanced Spin Seebeck Effect in Monolayer Tungsten Diselenide Due to Strong Spin Current Injection at Interface. Advanced Functional Materials, 2020, 30, 2003192.	7.8	22
1270	Gate-controlled spin extraction from topological insulator surfaces. Physical Review B, 2020, 102, .	1.1	1
1271	Enhancement in Thermally Generated Spin Voltage at the Interfaces between Pd and NiFe Films Grown on Surface Coverage Dependence of Spin-to-Charge Current across	1.5	13
1272	Pt/MoS ₂ /Y ₃ Fe ₅ O ₁₂ Layers via Longitudinal Spin Seebeck Effect. Journal of Physical Chemistry Letters, 2020, 11, 5338-5344.	2.1	12

#	ARTICLE	IF	CITATIONS
1273	Spin Hall magnetoresistance in antiferromagnetic insulators. Journal of Applied Physics, 2020, 127, .	1.1	27
1274	Enhanced electric control of magnetic anisotropy via high thermal resistance capping layers in magnetic tunnel junctions. Journal of Physics Condensed Matter, 2020, 32, 384001.	0.7	7
1275	Enhancement of Thermal Spin Transfer Torque via Bandpass Energy Filtering. IEEE Nanotechnology Magazine, 2020, 19, 469-474.	1.1	3
1276	Nonreciprocal spin pumping damping in asymmetric magnetic trilayers. Physical Review B, 2020, 101, .	1.1	13
1277	Thermoelectric thin films: Promising strategies and related mechanism on boosting energy conversion performance. Journal of Materiomics, 2020, 6, 494-512.	2.8	49
1278	Optoelectronic and photoelectric properties and applications of graphene-based nanostructures. Materials Today Physics, 2020, 13, 100196.	2.9	42
1279	Observation of the Spin Seebeck Effect in Bi ₂ Te ₃ Topological Insulator without an External Magnetic Field. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000004.	1.2	3
1280	Giant spin Seebeck effect through an interface organic semiconductor. Materials Horizons, 2020, 7, 1413-1420.	6.4	29
1281	Enhancing the spin Seebeck effect by controlling interface condition in Pt/polycrystalline nickel ferrite slabs. Journal of Applied Physics, 2020, 127, 085105.	1.1	15
1282	Magnetization switching in superlattice via thermal spin transfer torque. AIP Advances, 2020, 10, 015150.	0.6	1
1283	Spin-resolved transport through a quantum dot driven by bias and temperature gradient. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 114030.	1.3	2
1284	Enhancement of thermoelectric efficiency in granular Co-Cu thin films from spin-dependent scattering. Applied Physics Letters, 2020, 116, 042401.	1.5	0
1285	Temperature dependence of exchange stiffness in an off-stoichiometric $N_{i,j}Mn_{2}MnIn$ Heusler alloy. Physical Review B, 2020, 101, .	1.1	5
1286	Temperature Dependence of the Spin Seebeck Effect in a Mixed Valent Manganite. Physical Review Letters, 2020, 124, 017203.	2.9	16
1287	Transition regime in the ultrafast laser heating of solids. Journal of Applied Physics, 2020, 127, 073101.	1.1	5
1288	Dephasing-Assisted Macrospin Transport. Entropy, 2020, 22, 210.	1.1	0
1289	Giant localised spin-Peltier effect due to ultrafast domain wall motion in antiferromagnetic metals. Communications Physics, 2020, 3, .	2.0	9
1290	Coupling Nanostructured CsNiCr Prussian Blue Analogue to Resonant Microwave Fields. Advanced Quantum Technologies, 2020, 3, 1900101.	1.8	2

#	ARTICLE	IF	CITATIONS
1291	Spin pumping from permalloy into uncompensated antiferromagnetic Co doped zinc oxide. Journal of Applied Physics, 2020, 127, 043901.	1.1	3
1292	Enhancement of temperature change induced by anomalous Ettingshausen effect in thin Ni films on suspended membrane substrates. Applied Physics Letters, 2020, 116, .	1.5	8
1293	Nonlocal Detection of Out-of-Plane Magnetization in a Magnetic Insulator by Thermal Spin Drag. Physical Review Letters, 2020, 124, 027701.	2.9	13
1294	The impact of error control schemes on lifetime of energy harvesting wireless sensor networks in industrial environments. Computer Standards and Interfaces, 2020, 70, 103417.	3.8	16
1295	Molecular logic gates based on spin caloritronic transport properties of Mn phthalocyanine nanoribbon. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126256.	0.9	7
1296	First-principles study of magnon-phonon interactions in gadolinium iron garnet. Physical Review B, 2020, 101, .	1.1	21
1297	Analysis of compressive sensing and energy harvesting for wireless multimedia sensor networks. Ad Hoc Networks, 2020, 103, 102164.	3.4	13
1298	Spin-Dependent Thermoelectric Transport in Cobalt-Based Heusler Alloys. Annalen Der Physik, 2020, 532, 1900456.	0.9	18
1299	Large-scale MoS ₂ thin films with a chemically formed holey structure for enhanced Seebeck thermopower and their anisotropic properties. Journal of Materials Chemistry A, 2020, 8, 8669-8677.	5.2	13
1300	Magnetic excitations in magnetization plateaus of a frustrated spin ladder. Physical Review B, 2020, 101, .	1.1	4
1301	Record thermopower found in an IrMn-based spintronic stack. Nature Communications, 2020, 11, 2023.	5.8	16
1302	Magnon-phonon interactions in magnon spintronics (Review article). Low Temperature Physics, 2020, 46, 383-399.	0.2	62
1303	Iron-based binary ferromagnets for transverse thermoelectric conversion. Nature, 2020, 581, 53-57.	13.7	162
1304	Quantum kinetic theory of thermoelectric and thermal transport in a magnetic field. Physical Review B, 2020, 101, .	1.1	14
1305	Thermopower measurements in magnetic nanowires. , 2020, , 715-735.		0
1306	Bipolar magnetic semiconductor properties and spin-dependent Seebeck effects induced by nanoscale graphene domains doped into armchair boron nitride nanoribbons. Chemical Physics Letters, 2020, 748, 137386.	1.2	2
1307	Reversible spin storage in metal oxide-fullerene heterojunctions. Science Advances, 2020, 6, eaax1085.	4.7	10
1308	Advances in Metrology and Measurement of Engineering Surfaces. Lecture Notes in Mechanical Engineering, 2021, , .	0.3	3

#	ARTICLE	IF	CITATIONS
1309	Spin-dependent Seebeck and Nernst effects in an ideal skyrmion gas. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 518, 167367.	1.0	4
1310	Detection of electron-phonon coupling in two-dimensional materials by light scattering. <i>Nano Research</i> , 2021, 14, 1711-1733.	5.8	25
1311	Magnetic property modulation in sputter-grown BaTiO ₃ â€“Y ₃ Fe ₅ O ₁₂ composite films. <i>Ceramics International</i> , 2021, 47, 7062-7068.	2.3	6
1312	Distinct transport behaviors and electronic structures in Heusler alloys CoFeCrGa and CoFeCrAl. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 517, 167383.	1.0	4
1313	Enhanced Spin Seebeck Thermopower in Pt/Holey MoS ₂ /Y ₃ Fe ₅ O ₁₂ Hybrid Structure. <i>Nano Letters</i> , 2021, 21, 189-196.	4.5	18
1314	Spin Seebeck coefficients of Fe, Co, Ni, and Ni ₈₀ Fe ₂₀ 3d-metallic thin films. <i>Materials Research Bulletin</i> , 2021, 136, 111153.	2.7	3
1315	Compositional Investigations on the Spin Thermoelectric Effect in Ta ₁₀₀ â€“ x Cu x /Yttrium Iron Garnet Thin Films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2000464.	1.2	1
1316	Spin Seebeck effect in the 2D ferromagnetic CrPbTe ₃ . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114443.	1.3	6
1317	Rectification of Spin Currents in a Metal/Insulator/Metal Heterostructure. <i>Physica Status Solidi (B): Basic Research</i> , 2021, 258, 2000450.	0.7	0
1318	Self-powered cardiovascular electronic devices and systems. <i>Nature Reviews Cardiology</i> , 2021, 18, 7-21.	6.1	206
1319	Quantitative estimation of thermoelectric contributions in spin pumping signals through microwave photoresistance measurements. <i>Physical Review B</i> , 2021, 103, .	1.1	11
1320	Enhancement of the anomalous Nernst effect in Ni/Pt superlattices. <i>Physical Review B</i> , 2021, 103, .	1.1	34
1321	Strain-induced cooling-heating switching of anisotropic magneto-Peltier effect. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	6
1322	Distinguishing antiferromagnetic spin sublattices via the spin Seebeck effect. <i>Physical Review B</i> , 2021, 103, .	1.1	10
1323	Interfacial chemical states and recoverable spin pumping in YIG/Pt. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	5
1325	Nanophotonic structures with optical surface modes for tunable spin current generation. <i>Nanoscale</i> , 2021, 13, 5791-5799.	2.8	3
1326	Novel optimization perspectives for thermoelectric properties based on Rashba spin splitting: a mini review. <i>Nanoscale</i> , 2021, 13, 18032-18043.	2.8	10
1327	Spintronics. , 2021, , 305-424.		1

#	ARTICLE	IF	CITATIONS
1328	Energy harvesting and generation system. , 2021, , 713-762.		0
1329	Designing efficient spin Seebeck-based thermoelectric devices <i>via</i> simultaneous optimization of bulk and interface properties. Energy and Environmental Science, 2021, 14, 3480-3491.	15.6	19
1330	Inverse Spin Hall Effect enhancement in Pt layer doped by Ge. IOP Conference Series: Earth and Environmental Science, 0, 639, 012031.	0.2	0
1331	Above-room-temperature giant thermal conductivity switching in spintronic multilayers. Applied Physics Letters, 2021, 118, .	1.5	18
1332	Computer and network applications. , 2021, , 473-577.		0
1333	Pure thermal spin current and perfect spin-filtering with negative differential thermoelectric resistance induced by proximity effect in graphene/silicene junctions. Scientific Reports, 2021, 11, 104.	1.6	9
1334	Emerging Materials for Water-Enabled Electricity Generation. , 2021, 3, 193-209.		78
1335	Local and nonlocal spin Seebeck effect in lateral Ptâ€“Cr2O3â€“Pt devices at low temperatures. APL Materials, 2021, 9, .	2.2	13
1336	Transport phenomena in spin caloritronics. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2021, 97, 69-88.	1.6	50
1337	Coexistence of different magnetic ordering in thin films of SrMnO3 studied by spin transport. Applied Physics Letters, 2021, 118, .	1.5	8
1338	Cryogenic spin Seebeck effect. Physical Review B, 2021, 103, .	1.1	6
1339	Hybrid Triboelectric Nanogenerators: From Energy Complementation to Integration. Research, 2021, 2021, 9143762.	2.8	32
1340	A scalable molecule-based magnetic thin film for spin-thermoelectric energy conversion. Nature Communications, 2021, 12, 1057.	5.8	16
1341	A brief review of thermal transport in mesoscopic systems from nonequilibrium Greenâ€™s function approach. Frontiers of Physics, 2021, 16, 1.	2.4	14
1342	Spin polarization and heat generation matching in a quantum dot with magnetic background. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 393, 127168.	0.9	2
1343	Perovskite as a spin current generator. Physical Review B, 2021, 103, .	1.1	31
1344	Spin injection into vanadium dioxide films from a typical ferromagnetic metal, across the metalâ€“insulator transition of the vanadium dioxide films. AIP Advances, 2021, 11, .	0.6	4
1345	Study of magneto-optical activity in cerium substituted yttrium iron garnet (Ce:YIG) epitaxial thin films. Journal of Applied Physics, 2021, 129, 093903.	1.1	5

#	ARTICLE	IF	CITATIONS
1346	Role of Ferromagnetic Monolayer WSe ₂ Flakes in the Pt/Y ₃ Fe ₅ O ₁₂ Bilayer Structure in the Longitudinal Spin Seebeck Effect. ACS Applied Materials & Interfaces, 2021, 13, 15783-15790.	4.0	14
1347	Quantifying Power Flow Processes Mediated by Spin Currents. ACS Applied Electronic Materials, 2021, 3, 1663-1670.	2.0	3
1348	Perpendicular Magnetic Insulator Films for Spintronics. , 0, , .		1
1349	Anomalous Nernst and Seebeck Effects in NiCo ₂ O ₄ Films. Journal of the Magnetics Society of Japan, 2021, 45, 37-40.	0.5	3
1350	Spin caloritronics in two-dimensional van der Waals heterostructures. Physical Review B, 2021, 103, .	1.3	3
1351	Absence of Significant Spin-Current Generation in TiFe ₂ Co Bilayers with Strong Interfacial Spin Orbit Coupling. Physical Review Applied, 2021, 15, .	1.5	3
1352	Spin-Seebeck effect and thermal colossal magnetoresistance in the narrowest zigzag graphene nanoribbons. Nanotechnology, 2021, 32, 245703.	1.3	7
1353	Thermally assisted Pauli spin blockade in double quantum dots. Physical Review B, 2021, 103, .	1.1	3
1354	Mechanism of non-Ohmic conduction in a single Y ₃ Fe ₅ O ₁₂ nanofiber. Applied Physics Letters, 2021, 118, 153101.	1.5	0
1355	Magnonics in collinear magnetic insulating systems. Journal of Applied Physics, 2021, 129, 161101.	1.1	3
1356	Spin-dependent seebeck effect and pure spin current in ferromagnetic fluorinated boron nitride nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 128, 114614.	1.3	1
1357	Magnetic texture based magnonics. Physics Reports, 2021, 905, 1-59.	10.3	107
1358	Detecting Spin Heat Accumulation by Sign Reversion of Thermopower in a Quantum Dot Side-Coupled to Majorana Bound States. Journal of Low Temperature Physics, 2021, 203, 381-391.	0.6	4
1359	Spin Seebeck effect of correlated magnetic molecules. Scientific Reports, 2021, 11, 9192.	1.6	5
1360	Evaluation of edge domains in giant magnetoresistive junctions. Applied Physics Letters, 2021, 118, 172405.	1.5	1
1361	Electrical voltage by electron spin-vorticity coupling in laminar ducts. Physical Review Fluids, 2021, 6, .	1.0	12
1362	Pure spin-current diode based on interacting quantum dot tunneling junction*. Chinese Physics B, 2021, 30, 117305.	0.7	2
1363	Large spin to charge conversion in antiferromagnetic Weyl semimetal Mn ₃ Sn. APL Materials, 2021, 9, .	2.2	11

#	ARTICLE	IF	CITATIONS
1364	Identification of spin-dependent thermoelectric effects in metamagnetic FeRh/heavy-metal bilayers. Applied Physics Letters, 2021, 118, .	1.5	4
1365	Unified Framework for Charge-Spin Interconversion in Spin-Orbit Materials. Physical Review Applied, 2021, 15, .	1.5	8
1366	Crossover of the intrinsic spin Hall effect in the presence of lattice expansion. Physical Review B, 2021, 103, .	1.1	12
1367	Temperature bias-driven diode effect in a semiconductor quantum dot. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 399, 127297.	0.9	3
1368	Temperature effects in spin-dependent Hall currents in an ideal skyrmion gas. Physical Review B, 2021, 103, .	1.1	3
1369	Magnon-polaron formation in XXZ quantum Heisenberg chains. Physical Review B, 2021, 103, .	1.1	3
1370	Geometrical considerations to discern the transverse spin Nernst effect in an all-metallic permalloy/platinum bilayer system. Applied Physics Letters, 2021, 118, .	1.5	1
1371	Short-range thermal magnon diffusion in magnetic garnet. Physical Review B, 2021, 103, .	1.1	6
1372	Spin-based transport properties of Cs ₂ WX ₆ (X = Cl, Br) ferromagnets for spin-injected thermoelectric current. European Physical Journal Plus, 2021, 136, 1.	1.2	12
1373	Electrical and thermal generation of spin currents by magnetic bilayer graphene. Nature Nanotechnology, 2021, 16, 788-794.	15.6	71
1374	Magnetic field-controlled spin-dependent thermoelectric current in a single-molecule magnet transistor. Journal of Physics Condensed Matter, 2021, 33, 235302.	0.7	0
1375	Local heat emission due to unidirectional spin-wave heat conveyer effect observed by lock-in thermography. Applied Physics Letters, 2021, 118, .	1.5	5
1376	Tunable Damping in Magnetic Nanowires Induced by Chiral Pumping of Spin Waves. ACS Nano, 2021, 15, 9076-9083.	7.3	12
1377	Spin-charge conversion and current vortex in spin-orbit coupled systems. APL Materials, 2021, 9, .	2.2	3
1378	Electron-Phonon Interaction Enables Strong Thermoelectric Seebeck Effect Variation in Hybrid Nanoscale Systems. Journal of Physical Chemistry C, 2021, 125, 13167-13175.	1.5	5
1379	Longitudinal spin Seebeck effect and anomalous Nernst effect in CoFeB/non-magnetic metal bilayers. Journal of Magnetism and Magnetic Materials, 2021, 527, 167778.	1.0	6
1380	Simultaneous harvesting of radiative cooling and solar heating for transverse thermoelectric generation. Science and Technology of Advanced Materials, 2021, 22, 441-448.	2.8	9
1381	Acoustic control of magnetism toward energy-efficient applications. Applied Physics Reviews, 2021, 8, .	5.5	48

#	ARTICLE	IF	CITATIONS
1382	Thermal Spin Torque in Double-Barrier Tunnel Junctions with Magnetic Insulators. <i>Physical Review Applied</i> , 2021, 15, .	1.5	0
1383	Electrically induced strong modulation of magnon transport in ultrathin magnetic insulator films. <i>Physical Review B</i> , 2021, 103, .	1.1	8
1384	Morphology-dependent spin Seebeck effect in yttrium iron garnet thin films prepared by metal-organic decomposition. <i>Ceramics International</i> , 2021, 47, 16770-16775.	2.3	11
1385	$\text{Y}_{3}\text{Fe}_{5}\text{O}_{12}$ hybrid spin valves with appreciable spin Seebeck effect under perpendicular temperature gradient. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 070906.	0.8	1
1386	Recent progress on measurement of spin-charge interconversion in topological insulators using ferromagnetic resonance. <i>APL Materials</i> , 2021, 9, .	2.2	7
1387	The Strain-Tuned Spin Seebeck Effect, Spin Polarization, and Giant Magnetoresistance of a Graphene Nanobubble in Zigzag Graphene Nanoribbons. <i>ACS Omega</i> , 2021, 6, 15308-15315.	1.6	2
1388	Asymmetric In-Plane Temperature Contribution in Longitudinal Spin Seebeck Effect Measurements in the $\text{Pt}/\text{WSe}_2/\text{YIG}$ Hybrid Structure. <i>Journal of Physical Chemistry C</i> , 2021, 125, 13059-13066.	1.5	4
1389	Fabrication and broadband ferromagnetic resonance studies of freestanding polycrystalline yttrium iron garnet thin films. <i>APL Materials</i> , 2021, 9, 061105.	2.2	3
1390	Spin polarized thermoelectric feature of graphitic carbon nitride nanoribbon: An in-silico study. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 153, 110009.	1.9	5
1391	All-Electrical Magnon Transport Experiments in Magnetically Ordered Insulators. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100130.	1.2	12
1392	Thermal induced spin-polarized current protected by spin-momentum locking in ZrTe_5 nanowires. <i>Physical Review B</i> , 2021, 104, .		
1393	Temperature profile of nanospintronic device analyzed by spin-dependent Seebeck effect. <i>Applied Physics Express</i> , 2021, 14, 073004.	1.1	0
1394	Vacancy tuned thermoelectric properties and high spin filtering performance in graphene/silicene heterostructures. <i>Scientific Reports</i> , 2021, 11, 15320.	1.6	12
1395	Observation of nuclear-spin Seebeck effect. <i>Nature Communications</i> , 2021, 12, 4356.	5.8	20
1396	Thermal Control of the Intrinsic Magnetic Damping in a Ferromagnetic Metal. <i>Physical Review Applied</i> , 2021, 16, .	1.5	2
1397	Optimization of Thermoelectric Properties Based on Rashba Spin Splitting. , 0, , .		0
1398	Thermoelectric properties of geopolymers with the addition of nano-silicon carbide (SiC) powder. <i>Ceramics International</i> , 2021, 47, 19752-19759.	2.3	18
1399	Studying spin-charge conversion using terahertz pulses. <i>APL Materials</i> , 2021, 9, .	2.2	36

#	ARTICLE	IF	CITATIONS
1400	Pure spin photocurrent in non-centrosymmetric crystals: bulk spin photovoltaic effect. <i>Nature Communications</i> , 2021, 12, 4330.	5.8	51
1401	Structural, Magnetic, and Low-Temperature Electrical Transport Properties of YIG Thin Films with Heavily Reduced Oxygen Contents. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3313-3320.	2.0	3
1402	Linear and nonlinear thermal spin transport properties of zigzag $\hat{\Gamma}$ -graphyne nanoribbons with sp^2 edges. <i>Chemical Physics Letters</i> , 2021, 777, 138724.	1.2	7
1403	Antiferromagnetic skyrmion-based logic gates controlled by electric currents and fields. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	40
1404	Giant Photoâ€Magnetoâ€Thermoelectric Effect of Endâ€On Oriented PEDOT Grown from Selfâ€Assembled 3D Tectons. <i>Advanced Functional Materials</i> , 2021, 31, 2105297.	7.8	5
1405	Magnon-phonon interactions in spin insulators. <i>Low Temperature Physics</i> , 2021, 47, 621-645.	0.2	0
1406	Neutron Scattering Study on Yttrium Iron Garnet for Spintronics. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 081002.	0.7	3
1407	Spin coherence on the ferromagnetic spherical surface. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 531, 167939.	1.0	2
1408	Progress of microscopic thermoelectric effects studied by micro- and nano-thermometric techniques. <i>Frontiers of Physics</i> , 2022, 17, 1.	2.4	5
1409	A Review of Modelling in Ferrimagnetic Spintronics. <i>Journal of the Physical Society of Japan</i> , 2021, 90, 081001.	0.7	21
1410	Triplon current generation in solids. <i>Nature Communications</i> , 2021, 12, 5199.	5.8	9
1411	Spin thermoelectric transport of co-salophene with borophene nanoribbon electrodes. <i>Europhysics Letters</i> , 0, , .	0.7	1
1412	Selfâ€powered technology based on nanogenerators for biomedical applications. <i>Exploration</i> , 2021, 1, 90-114.	5.4	54
1413	Thermodynamic Optimization of the Ternary Ga-Sn-Te System Using Modified Quasichemical Model. <i>Metals</i> , 2021, 11, 1363.	1.0	3
1414	Real-space observations of 60-nm skyrmion dynamics in an insulating magnet under low heat flow. <i>Nature Communications</i> , 2021, 12, 5079.	5.8	27
1415	Measuring spin wave resonance in $Ni_{100-x}Fe_x$ films: compositional and temperature dependence. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 445002.	1.3	3
1416	Recent advances in power supply strategies for untethered neural implants. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 104003.	1.5	4
1417	Spintronic terahertz emitters: Status and prospects from a materials perspective. <i>APL Materials</i> , 2021, 9, .	2.2	43

#	ARTICLE	IF	CITATIONS
1418	New Developments in Thermoelectric Materials Based on the Thermomagnetic Effects. <i>Materia Japan</i> , 2021, 60, 558-561.	0.1	0
1419	Large magnon-induced anomalous Nernst conductivity in single-crystal MnBi. <i>Joule</i> , 2021, 5, 3057-3067.	11.7	21
1420	Bias pulse-controlled thermal spin injector based a single-molecule magnet tunneling junction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, , 114981.	1.3	0
1421	Maximizing spin-orbit torque generated by the spin Hall effect of Pt. <i>Applied Physics Reviews</i> , 2021, 8, .	5.5	67
1422	Spin Seebeck Effect in a Hybridized Quantum-Dot/Majorana-Nanowire With Spin Heat Accumulation. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	2
1423	Thermodynamic modelling of the ternary Bi-Ga-Te system for potential application in thermoelectric materials. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021, 74, 102326.	0.7	9
1424	Principles of spintronic THz emitters. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	32
1425	Change of longitudinal spin Seebeck voltage with annealing in Y3Fe5O12 films formed by densely packed nanocrystals. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 535, 168093.	1.0	3
1426	Optimization on thermoelectric characteristics of indium tin oxide/indium oxide thin film thermocouples based on screen printing technology. <i>Review of Scientific Instruments</i> , 2021, 92, 105001.	0.6	6
1427	Fabrication and performance prediction of Ni/Bi0.5Sb1.5Te3 artificially-tilted multilayer devices with transverse thermoelectric effect. <i>Journal of Power Sources</i> , 2021, 512, 230471.	4.0	7
1428	Transparent niobium-doped titanium dioxide thin films with high Seebeck coefficient for thermoelectric applications. <i>Surface and Coatings Technology</i> , 2021, 425, 127724.	2.2	3
1429	Thermal and hybridized magnons. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 539, 168391.	1.0	1
1430	Theory of the low-temperature longitudinal spin Seebeck effect. <i>Physical Review B</i> , 2021, 103, .	1.1	7
1431	Thermally induced spin-transfer torques in superconductor/ferromagnet bilayers. <i>Physical Review B</i> , 2021, 103, .	1.1	9
1432	Spintronic terahertz emitter. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	39
1433	High spin mixing conductance and spin interface transparency at the interface of a Co2Fe0.4Mn0.6Si Heusler alloy and Pt. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	18
1434	Magnetocaloric Materials and Applications. , 2021, , 1-38.		2
1435	The spin-dependent transport properties of defected zigzag graphene nanoribbons with graphene nanobubbles. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2753-2761.	1.3	5

#	ARTICLE	IF	CITATIONS
1436	The epitaxial growth of Ho ₃ Fe ₅ O ₁₂ films with perpendicular magnetic anisotropy and spin transport properties in Ho ₃ Fe ₅ O ₁₂ /Pt heterostructures. Wuli Xuebao/Acta Physica Sinica, 2021, .	0.2	0
1437	Outstanding spin-transport properties of a flexible phosphorene photodetector driven by the photogalvanic effect under mechanical strains. Physical Chemistry Chemical Physics, 2021, 23, 11961-11967.	1.3	7
1438	High In-Plane Seebeck Coefficients of Bi ²⁻ Sb ²⁻ Te Alloy Thin Films with Growth Texture and Their Field-Controlled Seebeck Coefficients. Journal of Physical Chemistry C, 2021, 125, 2373-2381.	1.5	3
1439	Armchair Graphene Nanoribbon-Based Spin Caloritronics. SSRN Electronic Journal, 0, , .	0.4	0
1440	Energy Applications of Magnetocaloric Materials. Advanced Energy Materials, 2020, 10, 1903741.	10.2	291
1441	Heusler Alloy Films for Spintronic Devices. Springer Series in Materials Science, 2016, , 219-248.	0.4	15
1442	Physical Principles of Spin Pumping. , 2016, , 1445-1480.		4
1443	Thermal Effects in Spintronics: Physics and Applications. , 2016, , 1553-1576.		1
1444	Î ² -Tantalum, a better candidate for spin-to-charge conversion. Solid State Communications, 2017, 249, 34-37.	0.9	4
1445	Magneto-Seebeck effect in spin valves. Journal of Applied Physics, 2017, 122, .	1.1	5
1446	Generation of open-circuit spin current on GHz scale in structured Pt/YIG by electric fields. Journal Physics D: Applied Physics, 2017, 50, 495005.	1.3	3
1447	Generating pure spin current in zigzag graphene nanoribbons by a thermal gradient: the effect of edge doping with BN pairs. Journal Physics D: Applied Physics, 2020, 53, 485304.	1.3	4
1448	Recent progress on excitation and manipulation of spin-waves in spin Hall nano-oscillators*. Chinese Physics B, 2020, 29, 117102.	0.7	17
1449	Magnetization reorientation induced by spin ²⁻ orbit torque in YIG/Pt bilayers*. Chinese Physics B, 2020, 29, 117504.	0.7	1
1450	Transient response of the spin Peltier effect revealed by lock-in thermoreflectance measurements. Physical Review B, 2020, 101, .	1.1	11
1451	Static magnetic proximity effects and spin Hall magnetoresistance in Pt/Y ₃ Fe ₅ O ₁₂ and inverted Y ₃ Fe ₅ O ₁₂ /Pt bilayers. Physical Review B, 2020, 102, .	1.1	8
1452	Magnon hybridization in ferrimagnetic heterostructures. Physical Review B, 2020, 102, .	1.1	6
1453	Thermoelectric effects in transport through quantum dots attached to ferromagnetic leads with noncollinear magnetic moments. Physical Review B, 2009, 80, .	1.1	235

#	ARTICLE	IF	CITATIONS
1454	Probing length-scale separation of thermal and spin currents by nanostructuring YIG. <i>Physical Review Materials</i> , 2017, 1, .	0.9	18
1455	Substantial enhancement of thermal spin polarization in Py/Cu interface. <i>Physical Review Materials</i> , 2018, 2, .	0.9	4
1456	Maximization of ferromagnetism in LaCoO_3 films by competing symmetry. <i>Physical Review Materials</i> , 2019, 3, .	0.9	13
1457	Spin-mediated charge-to-heat current conversion phenomena in ferromagnetic binary alloys. <i>Physical Review Materials</i> , 2020, 4, .	0.9	24
1458	Magnon diffusion lengths in bulk and thin film Fe_3O_4 for spin Seebeck applications. <i>Physical Review Materials</i> , 2020, 4, .	0.9	11
1459	Direct observation of spin accumulation in Cu induced by spin pumping. <i>Physical Review Research</i> , 2020, 2, .	1.3	8
1460	Probing quantum spin liquids in equilibrium using the inverse spin Hall effect. <i>Physical Review Research</i> , 2020, 2, .	1.3	8
1461	Hybrid thermal machines: Generalized thermodynamic resources for multitasking. <i>Physical Review Research</i> , 2020, 2, .	1.3	27
1462	Co_2MnSi :Pt multilayers for giant spin Seebeck devices. , 2017, , .		1
1463	Spin Thermoelectric Effects in Transport through a Two-Level Quantum Dot Coupled to Ferromagnetic Leads. <i>Acta Physica Polonica A</i> , 2012, 121, 1207-1209.	0.2	2
1464	Recent Trends in Microwave Magnetism and Superconductivity. <i>Ukrainian Journal of Physics</i> , 2019, 64, 888.	0.1	19
1465	Dielectric magnonics: from gigahertz to terahertz. <i>Physics-Usppekhi</i> , 2020, 63, 945-974.	0.8	40
1466	Inverse Spin-Hall Effect in $\text{Pt}_1\text{-xMx}$ (M = Cu, Au) Thin Films. <i>Journal of the Magnetism Society of Japan</i> , 2010, 34, 337-341.	0.5	3
1467	Nanogenerator-Based Self-Powered Sensors for Wearable and Implantable Electronics. <i>Research</i> , 2020, 2020, 8710686.	2.8	147
1468	Recent advances and future prospects in energy harvesting technologies. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 110201.	0.8	68
1469	Effect of Proton Irradiation on the Magnetic Properties of Antiferromagnet/ferromagnet Structures. <i>Journal of Magnetism</i> , 2016, 21, 159-163.	0.2	3
1470	Quantum thermal transport and spin thermoelectrics in low-dimensional nano systems: application of nonequilibrium Green's function method. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2015, 64, 186302.	0.2	19
1471	Research advances in spintronic terahertz sources. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 200703.	0.2	4

#	ARTICLE	IF	CITATIONS
1472	Terahertz emitters based on ultrafast spin-to-charge conversion. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 204202.	0.2	1
1473	Local Spin-Seebeck Effect Enabling Two-Dimensional Position Sensing. Japanese Journal of Applied Physics, 2011, 50, 120211.	0.8	18
1474	Spin Hall Effect in Superconductors. Japanese Journal of Applied Physics, 2012, 51, 010110.	0.8	18
1475	Electrically-Generated Pure Spin Current in Graphene. Japanese Journal of Applied Physics, 2012, 51, 08KA01.	0.8	4
1476	Low-temperature suppression of the spin Nernst angle in Pt. Physical Review B, 2021, 104, .	1.1	2
1477	Transition metal nitrides and their mixed crystals for spintronics. Nanotechnology, 2022, 33, 062001.	1.3	9
1478	Recent Progress in Multiphase Thermoelectric Materials. Materials, 2021, 14, 6059.	1.3	23
1479	Study of magnon-phonon non-equilibrium in a magnetic insulator Thulium iron garnet. Applied Physics Letters, 2021, 119, 152406.	1.5	0
1480	Generation of terahertz transients from Co_2MnSi -Heusler-alloy/normal-metal nanobilayers excited by femtosecond optical pulses. Physical Review Research, 2021, 3, .	1.3	6
1482	Heat-current-induced Spintronic Phenomena and Spin Seebeck Effects. Materia Japan, 2010, 49, 357-363.	0.1	0
1483	Electrical Control of Magnetic States. Acta Physica Polonica A, 2010, 118, 199-203.	0.2	0
1484	Generation of Spin Current in Bipolar Conductors. Japanese Journal of Applied Physics, 2011, 50, 103002.	0.8	2
1485	Influence of magnetic anisotropy thermoelectric effect on spin-dependent devices. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 207201.	0.2	0
1486	Thermoelectric Effects in Planar Tunnel Junctions. Acta Physica Polonica A, 2012, 121, 1188-1190.	0.2	0
1487	Electrical and Heat Currents in Nanoscopic System with Ferromagnetic Electrodes of Non-Collinear Magnetic Moments. Acta Physica Polonica A, 2012, 121, 1073-1075.	0.2	0
1488	Non-Linear Thermal Current through Multilevel Quantum Dot Coupled to Ferromagnetic Electrodes. Acta Physica Polonica A, 2012, 121, 1204-1206.	0.2	1
1489	Recent Progress in Spin Seebeck Effect. Material Sciences, 2014, 04, 175-190.	0.0	1
1490	Optical Assessment of Carrier Effective Mass in Gd_2O_3 (Gd_2O_3), 2014, , .		0

#	ARTICLE	IF	CITATIONS
1491	Physical Principles of Spin Pumping. , 2015, , 1-31.		0
1492	Influences of electron-phonon interaction on the thermoelectric effect in a parallel double quantum dot system. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 077301.	0.2	1
1493	Spin Dependent Thermoelectric Currents of Tunnel Junctions, Small Rings and Quantum Dots: Onsager Theory. Quantum Matter, 2015, 4, 387-399.	0.2	0
1494	Co ₂ Mn _{0.6} Fe _{0.4} Si: A Heusler Compound Opening New Perspectives in Magnon Spintronics. Springer Series in Materials Science, 2016, , 321-340.	0.4	0
1495	Effect of the Annealing Conditions on the Ferromagnetic Resonance of YIG Thin Film Prepared on GGG Substrate. Korean Journal of Materials Research, 2015, 25, 703-707.	0.1	0
1496	Solid-State Heat Convertors. , 2016, , 3781-3798.		0
1497	Physical Principles of Spin Pumping. , 2016, , 1-31.		0
1498	Solid-State Heat Convertors. , 2016, , 1-19.		0
1499	Excitation of Ferromagnetic Resonance using Surface Acoustic Waves. IEEJ Transactions on Fundamentals and Materials, 2017, 137, 386-391.	0.2	0
1500	Magnetotransport and Spin Effects. Nanoscience and Technology, 2017, , 151-199.	1.5	0
1501	Theory of the Heat Generation in Giant Magnetoresistance Model. Modern Physics, 2017, 07, 25-31.	0.1	0
1502	The Investigation of Spin Seebeck Effect in Co ₇₉ Si ₁₀ X Alloys. Acta Physica Polonica A, 2017, 131, 872-874.	0.2	1
1503	Thermoelectric Effects in Spin Valves Based on Layered Magnetic Structures. Acta Physica Polonica A, 2017, 132, 124-128.	0.2	0
1504	Multi-field control on magnetic skyrmions. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 137507.	0.2	0
1505	Temperature Dependence of Spin Hall Effect in k-Cubed Rashba Model. Acta Physica Polonica A, 2018, 133, 558-560.	0.2	0
1506	Transport and Thermoelectric Properties of Magnetic Organic Structures. Acta Physica Polonica A, 2018, 133, 532-534.	0.2	0
1507	Thermoelectric Generation Based on Spin Seebeck Effect in NiFeCuMo Alloy. Acta Physica Polonica A, 2018, 133, 541-543.	0.2	1
1508	Thermal spin transport properties in a hybrid structure of single-walled carbon nanotubes and zigzag-edge boron nitride nanoribbons. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 057301.	0.2	1

#	ARTICLE	IF	CITATIONS
1509	Introduction to Spintronics. Journal of the Institute of Electrical Engineers of Japan, 2019, 139, 589-594.	0.0	0
1510	Spin Transport and Spin Conversion at Room Temperature in Exotic Materials Systems. Journal of the Institute of Electrical Engineers of Japan, 2019, 139, 668-673.	0.0	0
1511	Anomalous Ettingshausen Effect: Novel Functionality for Thermal Management Utilizing Magneto-thermoelectric Effect. Journal of the Institute of Electrical Engineers of Japan, 2019, 139, 662-667.	0.0	0
1512	Spintronics using Insulator Materials; Utilization of Spin Currents in Insulators. Journal of the Institute of Electrical Engineers of Japan, 2019, 139, 742-747.	0.0	0
1513	Thermoelektrischer Basiseffekt. , 2020, , 22-59.		0
1514	High-performance THz emission: From topological insulator to topological spintronics. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 200704.	0.2	2
1515	Topological spintronics in a polyacetylene molecule device. Journal of Physics Condensed Matter, 2020, 32, 345302.	0.7	1
1516	A Technological Review on Temperature Measurement Techniques in Various Machining Processes. Lecture Notes in Mechanical Engineering, 2021, , 55-67.	0.3	9
1517	Spin fluctuations yield zT enhancement in ferromagnets. IScience, 2021, 24, 103356.	1.9	11
1518	Resonant precession of magnetization and precession-induced DC voltages in FeGaB thin films. Journal Physics D: Applied Physics, 2022, 55, 075303.	1.3	10
1519	Electrically switchable van der Waals magnon valves. Nature Communications, 2021, 12, 6279.	5.8	26
1520	Spintronic Thermal Management. Journal of the Physical Society of Japan, 2021, 90, .	0.7	17
1521	Low energy dissipation readout of single-molecule ferroelectric states by a spin-Seebeck signal. Physical Review Research, 2020, 2, .	1.3	5
1522	Paramagnon heat capacity in (Ti,Zr,Hf) NiFe _x NiSn half-Heusler composites. Physical Review B, 2020, 102, .	1.1	0
1523	Probe of antiferromagnetic transition via thermal-excited incoherent spin current. Journal of Applied Physics, 2020, 128, .	1.1	0
1524	Spin pumping contribution to the magnetization damping in Tm ₃ Fe ₅ O ₁₂ /W bilayers. Journal of Magnetism and Magnetic Materials, 2022, 543, 168630.	1.0	2
1525	Spin transport and spin-to-charge current conversion in polyaniline by means of spin Seebeck experiments. Journal of Magnetism and Magnetic Materials, 2022, 543, 168635.	1.0	1
1526	Structure Regulation and Thermal Spin Transport Properties of Co₂MnSn Films. Advances in Condensed Matter Physics, 2020, 09, 33-41.	0.1	1

#	ARTICLE	IF	CITATIONS
1527	Magnon Spintronics. Lecture Notes in Physics, 2020, , 287-352.	0.3	1
1528	Research progress of self-powered flexible biomedical sensors. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 178704.	0.2	7
1529	Research Progress of Spin Seebeck Effect in YIG/Pt Heterojunction. Advances in Condensed Matter Physics, 2020, 09, 42-58.	0.1	0
1530	Transverse thermal energy conversion using spin and topological structures. Journal of Applied Physics, 2021, 130, 171101.	1.1	9
1531	Signature of electron-magnon Umklapp scattering in L10 FePt probed by thermoelectric measurements. Applied Physics Letters, 2021, 119, 182402.	1.5	1
1532	Sign reversal of unidirectional magnetoresistance in monocrystalline Fe/Pt bilayers. Physical Review B, 2021, 104, .	1.1	5
1533	Holographic dual approach to magnetism and magnetization dynamics. Journal of Magnetism and Magnetic Materials, 2022, 545, 168673.	1.0	0
1534	Ultrafast high-harmonic nanoscopy of magnetization dynamics. Nature Communications, 2021, 12, 6337.	5.8	22
1535	Strain-induced enhancement in the electronic and thermal transport properties of the tin sulphide bilayer. Physical Chemistry Chemical Physics, 2021, 24, 211-221.	1.3	2
1536	Perfect spin filtering effect, tunnel magnetoresistance and thermoelectric effect in metals-adsorbed blue phosphorene nanoribbons. Physica B: Condensed Matter, 2022, 626, 413580.	1.3	7
1538	Nonlinear anomalous Nernst effect in strained graphene induced by trigonal warping. Physical Review B, 2021, 104, .	1.1	5
1539	Recent progress in the spin Seebeck and spin Peltier effects in insulating magnets. Journal of Magnetism and Magnetic Materials, 2021, , 168773.	1.0	3
1540	Understanding and design of spin-driven thermoelectrics. Cell Reports Physical Science, 2021, 2, 100614.	2.8	12
1541	Generation of spin currents by a temperature gradient in a two-terminal device. Communications Physics, 2021, 4, .	2.0	6
1542	Intrinsic magnon Nernst effect in pyrochlore iridate thin films. Physical Review B, 2021, 104, .	1.1	0
1543	Enhanced spin transmission due to interfacial NiFe insertion in YIG/Pt films. Applied Physics Letters, 2021, 119, .	1.5	3
1544	Seebeck and Nernst effects in topological insulator: The case of strained HgTe. Physica B: Condensed Matter, 2022, 627, 413521.	1.3	0
1545	Ultrafast lattice dynamics and electron-phonon coupling in platinum extracted with a global fitting approach for time-resolved polycrystalline diffraction data. Structural Dynamics, 2021, 8, 064301.	0.9	6

#	ARTICLE	IF	CITATIONS
1546	Theoretical Design of thermal spin molecular logic gates by using a combinational molecular junction. Chinese Physics B, 0, , .	0.7	3
1547	Scaling of the Thermally Induced Sign Inversion of Longitudinal Spin Seebeck Effect in a Compensated Ferrimagnet: Role of Magnetic Anisotropy. Advanced Functional Materials, 2022, 32, 2109170.	7.8	19
1548	Direct measurement of magnon temperature by magneto-optic Kerr effect in YIG. Japanese Journal of Applied Physics, 2021, 60, 120904.	0.8	0
1549	Magnetocaloric Materials and Applications. , 2021, , 1489-1526.		0
1550	Motion-induced spin transfer. Physical Review B, 2022, 105, .	1.1	2
1551	Armchair graphene nanoribbon-based spin caloritronics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 426, 127892.	0.9	5
1552	The influence of the internal domain wall structure on spin wave band structure in periodic magnetic stripe domain patterns. Solid State Physics, 2021, , 29-82.	1.3	1
1553	Disorder-driven ferromagnetic insulator phase in manganite heterostructures. Ceramics International, 2021, 48, 8374-8374.	2.3	0
1554	Giant doping response of magnetic anisotropy in MnTe. Physical Review Materials, 2022, 6, .	0.9	8
1555	The Damage Analysis for Irradiation Tolerant Spin-Driven Thermoelectric Device Based on Single-Crystalline $\text{Y}_2\text{Fe}_3\text{O}_7/\text{Pt}$ Heterostructures. IEEE Transactions on Magnetics, 2022, 58, 1-6.	1.2	1
1556	Study of interfacial spin transport with an antiferromagnetic Cr_2O_3 interlayer. Physical Review B, 2022, 105, .	1.1	0
1557	The observation of spin Seebeck effect in opposite spin Hall angle materials of polycrystalline bulk- $\text{Fe}_3\text{O}_4/(\text{Co}/\text{Fe})$ systems. AIP Advances, 2022, 12, .	0.6	4
1558	Thermal Generation of Spin Current and Magnon Propagation Length in Compensated Ferrimagnetic $\text{Gd}_2\text{Fe}_3\text{O}_7$ Thin Films. IEEE Transactions on Magnetics, 2022, 58, 1-5.	1.2	5
1559	Quaternary Heusler alloy CoZrMnAs competent candidate for spintronics and thermoelectric technologies. Energy Storage, 2022, 4, .	2.3	4
1560	Solar-Driven Thermally Effective Molybdenum Disulfide Electrochemical Hydrogen Evolution Reactions Using Photothermal Generators. Energy Technology, 2022, 10, .	1.8	1
1561	Process gas dependence of the spin Peltier effect in $\text{Pt}/\text{Fe}_3\text{O}_4$ hybrid structures. Applied Physics Express, 2022, 15, 013004.	1.1	0
1562	Anisotropic Magnon Spin Transport in Ultrathin Spinel Ferrite Thin Films—Evidence for Anisotropy in Exchange Stiffness. Nano Letters, 2022, 22, 1167-1173.	4.5	10
1563	Promising spin caloritronics and spin diode effects based on 1T-FeCl_2 nanotube devices. Journal of Materials Chemistry C, 2022, 10, 607-615.	2.7	9

#	ARTICLE	IF	CITATIONS
1564	Microwave-Free Dynamic Nuclear Polarization via Sudden Thermal Jumps. <i>Physical Review Letters</i> , 2022, 128, 037401.	2.9	3
1565	Spin Seebeck effect in quantum magnet Pb ₂ V ₃ O ₉ . <i>Applied Physics Letters</i> , 2022, 120, .	1.5	10
1566	Magnetothermoelectric properties of Al-Porphyrin sandwiched by graphene nanoribbon electrode based on quantum interference. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, 139, 115189.	1.3	1
1567	Quantum mechanical modeling of magnon-phonon scattering heat transport across three-dimensional ferromagnetic/nonmagnetic interfaces. <i>Physical Review B</i> , 2022, 105, .	1.1	39
1568	Perfect spin Seebeck effect, spin-valve, spin-filter and spin-rectification based on the heterojunction of sawtooth graphene and graphyne nanoribbons. <i>Nanoscale</i> , 2022, 14, 3818-3825.	2.8	17
1569	Quantum Sensing of Thermoelectric Power in Low-Dimensional Materials. <i>Advanced Materials</i> , 2023, 35, e2106871.	11.1	6
1570	The Magnetic and Thermally-Induced Spin-Related Transport Features Using Germanene Nanoribbons With Zigzag and Klein Edges. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	0
1571	Computational Study of Metal-Free Magnetism and Spin-Dependent Seebeck Effect in Silicene Nanoribbons with Zigzag and Klein Edges. <i>Advances in Condensed Matter Physics</i> , 2022, 2022, 1-7.	0.4	0
1572	Spin pumping at terahertz nutation resonances. <i>Physical Review B</i> , 2021, 104, .	1.1	11
1573	Electronic phase transition, spin filtering effect, and spin Seebeck effect in 2D high-spin-polarized VS ₂ X ₄ (X = N, P, As). <i>Applied Physics Letters</i> , 2022, 120, .	1.5	31
1574	Designing light-element materials with large effective spin-orbit coupling. <i>Nature Communications</i> , 2022, 13, 919.	5.8	26
1575	Unified formulation of interfacial magnonic pumping from noncollinear magnets. <i>Physical Review B</i> , 2022, 105, .	1.1	2
1576	Spin Seebeck Effect in Iron Oxide Thin Films: Effects of Phase Transition, Phase Coexistence, And Surface Magnetism. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 13468-13479.	4.0	11
1577	Influences of RF Magnetron Sputtering Power and Gas Flow Rate on a High Conductivity and Low Drift Rate of Tungsten-Rhenium Thin-Film Thermocouples. <i>Nanomaterials</i> , 2022, 12, 1120.	1.9	6
1578	Thermoelectric power generation via transverse thermo-spin conversions. <i>Applied Physics Letters</i> , 2022, 120, 122404.	1.5	2
1579	Influence of heat flow control on dynamical spin injection in CoFeB/Pt/CoFeB trilayer. <i>Scientific Reports</i> , 2022, 12, 3467.	1.6	4
1580	Spin-thermoelectric effects in a quantum dot hybrid system with magnetic insulator. <i>Scientific Reports</i> , 2022, 12, 5348.	1.6	5
1581	Magnetic Bragg peak enhancement under ultrasound injection. <i>Physical Review Research</i> , 2022, 4, .	1.3	2

#	ARTICLE	IF	CITATIONS
1582	Antiferromagnetic spin Seebeck effect across the spin-flop transition: A stochastic Ginzburg-Landau simulation. <i>Physical Review B</i> , 2022, 105, .	1.1	11
1583	Thermoelectric films and periodic structures and spin Seebeck effect systems: facets of performance optimization. <i>Materials Today Energy</i> , 2022, 25, 100965.	2.5	19
1584	Giant Extrinsic Spin Hall Effect in Platinum-Titanium Oxide Nanocomposite Films. <i>Advanced Science</i> , 2022, 9, e2105726.	5.6	6
1585	Surface magnetic anisotropy-mediated spin Hall magnetoresistance and spin Seebeck effects in a YIG/Pt heterostructure. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 551, 169173.	1.0	4
1586	Evolution of a weak magnetic moment in the FeNbSb based HH materials via Ni doping at Fe site. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 554, 169306.	1.0	0
1587	Enhancement of thermal spin pumping by orbital angular momentum of rare earth iron garnet. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 553, 169248.	1.0	2
1588	Transparent spin thermoelectricity with enhanced energy conversion. <i>Nano Energy</i> , 2022, 98, 107224.	8.2	2
1589	Spin Seebeck effect driven by thermal flux in two-dimensional ferromagnets. <i>Journal of Applied Physics</i> , 2021, 130, 223902.	1.1	4
1590	Junction size dependence of the heat controlled magnetic anisotropy in magnetic tunnel junctions. <i>Applied Physics Express</i> , 2022, 15, 013001.	1.1	1
1591	Reconfigurable single-material Peltier effect using magnetic-phase junctions. <i>Scientific Reports</i> , 2021, 11, 24216.	1.6	1
1592	Interface Effects in Spin Caloritronics. <i>Vacuum and Surface Science</i> , 2021, 64, 562-567.	0.0	0
1593	Ferrimagnetic spintronics. <i>Nature Materials</i> , 2022, 21, 24-34.	13.3	129
1594	Role of Magnon-Magnon Scattering in Magnon Polaron Spin Seebeck Effect. <i>Physical Review Letters</i> , 2021, 127, 277203.	2.9	6
1595	The Observation of Spin Seebeck Effect of Hybrid Structure in Bulk Sintering Polycrystalline of Yttrium Iron Oxide ($Y_3Fe_5O_{12}$)/Pt. <i>Integrated Ferroelectrics</i> , 2022, 222, 44-55.	0.3	4
1596	A perspective on two-dimensional van der Waals opto-spin-caloritronics. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	10
1597	Model for coupled $\langle \mathbf{m}_i \cdot \mathbf{m}_j \rangle$. <i>Chinese Science Bulletin</i> , 2022, , .	0.4	0
1598	magnetic spectra: A neutron scattering study of the Yb-Fe hybridization in $Yb_3Fe_5O_{12}$. <i>Physical Review B</i> , 2022, 105, .	1.1	1
1599	Trans-polyacetylene Based Organic Spin Valve for a Multifunctional Spin-Based Device: A First Principle Analysis. <i>Journal of Science: Advanced Materials and Devices</i> , 2022, , 100459.	1.5	1

#	ARTICLE	IF	CITATIONS
1601	Strain-induced spin-gapless semiconductors and pure thermal spin-current in magnetic black arsenic-phosphorus monolayers. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 13897-13904.	1.3	2
1602	Enhanced transverse thermoelectric voltage in the Au/Ni foil bilayer system via the combination of spin Seebeck effect and anomalous Nernst effect. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 0, , .	0.8	0
1603	Thickness dependence of spin Seebeck resistivity in polycrystalline YIG films grown by metal organic decomposition method. <i>Current Applied Physics</i> , 2022, , .	1.1	0
1604	Electric field induced pure spin-photo current in zigzag stanene and germanene nanoribbons. <i>Scientific Reports</i> , 2022, 12, 7800.	1.6	3
1605	Tuning quantum heat transport in magnetic nanostructures by spin-phonon interaction. <i>Europhysics Letters</i> , 2022, 138, 36001.	0.7	2
1606	Theory of drift-enabled control in nonlocal magnon transport. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 295801.	0.7	3
1607	Quantum magnonics: When magnon spintronics meets quantum information science. <i>Physics Reports</i> , 2022, 965, 1-74.	10.3	195
1608	Bismuth composition, thickness, and annealing temperature dependence of the spin Seebeck voltage in Bi-YIG films prepared using sol-gel solution and spin-coating method. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 556, 169416.	1.0	3
1609	Itinerant magnetism, electronic properties and half-metallicity of Co ₂ ZrSn and Co ₂ HfSn Heusler alloys. <i>Journal of Alloys and Compounds</i> , 2022, 918, 165464.	2.8	3
1610	Temperature-Dependent High Magnetoresistance in Zigzag Silicene Nanoribbon Heterostructure. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 4010-4015.	1.6	1
1611	Elastodynamically Induced Spin and Charge Pumping in Bulk Heavy Metals. <i>Physical Review Letters</i> , 2022, 128, .	2.9	3
1612	Towards Low Cost and Sustainable Thin Film Thermoelectric Devices Based on Quaternary Chalcogenides. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	26
1613	Thermoelectric effects and applications: an advanced physics laboratory experiment. <i>European Journal of Physics</i> , 0, , .	0.3	0
1614	All-Optical Detection of Spin Pumping and Giant Interfacial Spin Transparency in Co ₂ Fe _{0.4} Mn _{0.6} Si/Pt Heterostructure. <i>Advanced Quantum Technologies</i> , 2022, 5, .	1.8	4
1615	Magnon drag in a metal-insulating antiferromagnet bilayer. <i>Physical Review B</i> , 2022, 105, .	1.1	2
1616	Magnetic and thermospin transport properties of triangular graphene-flake-doped boron nitride nanotubes. <i>Spin</i> , 0, , .	0.6	0
1617	Oxygen nonstoichiometry effects in spin Seebeck insulating Y ₃ Pr _x Fe ₅ O ₁₂ materials. <i>AIP Advances</i> , 2022, 12, 065103.	0.6	0
1618	Progress and challenges in magnetic skyrmionics. <i>Chinese Physics B</i> , 2022, 31, 087507.	0.7	6

#	ARTICLE	IF	CITATIONS
1619	The Thermal Spin Molecular Logic Gates Modulated by Light. SSRN Electronic Journal, 0, , .	0.4	0
1620	Spin Seebeck coefficient and spin-thermal diffusion in the two-dimensional Hubbard model. Physical Review Research, 2022, 4, .	1.3	3
1621	Enhanced second harmonic Hall resistance in in-plane synthetic antiferromagnets. Applied Physics Letters, 2022, 120, 252404.	1.5	0
1622	Inelastic thermoelectric transport and fluctuations in mesoscopic systems. Advances in Physics: X, 2022, 7, .	1.5	8
1623	Spin Hydrodynamic Generation in Low-Melting-Point Pure Metal. Physical Review Applied, 2022, 17, .	1.5	2
1624	Heusler alloys for metal spintronics. MRS Bulletin, 2022, 47, 593-599.	1.7	20
1625	Efficient room-temperature magnetization direction detection by means of the enhanced anomalous Nernst effect in a Weyl ferromagnet. Physical Review Materials, 2022, 6, .	0.9	6
1626	Spin-thermoelectric properties and giant tunneling magnetoresistance of boron-substituted graphene nanoribbon: a first principle study. Journal of Physics Condensed Matter, 2022, 34, 345802.	0.7	2
1627	Measuring spin pumping induced inverse spin Hall effect using an air-substrate micro-strip waveguide device. Journal of Magnetism and Magnetic Materials, 2022, 560, 169600.	1.0	1
1628	Tuning the spin caloritronic transport properties of InSe monolayers via transition metal doping. New Journal of Chemistry, 2022, 46, 15373-15380.	1.4	1
1629	Large Magnetoresistance in Phosphorus-Sulfur Compounds (Tm _{ps}) ⁴ Based Temperature Regulated Spin-Caloritronic Devices. SSRN Electronic Journal, 0, , .	0.4	0
1630	Spin accumulation in the spin Nernst effect. Physical Review B, 2022, 106, .	1.1	0
1631	Thermal Probing Techniques for a Single Live Cell. Sensors, 2022, 22, 5093.	2.1	2
1632	Dynamics of magnetic skyrmions driven by a temperature gradient in a chiral magnet FeGe. Physical Review B, 2022, 106, .	1.1	5
1633	Anomalous valley Hall effect and Nernst effect in strain engineered graphene. Journal Physics D: Applied Physics, 2022, 55, 375302.	1.3	0
1634	First observation of magnon transport in organic-inorganic hybrid perovskite. Matter, 2022, , .	5.0	4
1635	Enhanced Spin Thermopower in Phosphorene Nanoribbons via Edge-State Modifications. Nanomaterials, 2022, 12, 2350.	1.9	4
1636	Spin-orbit torque generation in bilayers composed of CoFeB and epitaxial SrIrO ₃ grown on an orthorhombic DyScO ₃ substrate. Applied Physics Letters, 2022, 121, .	1.5	5

#	ARTICLE	IF	CITATIONS
1637	A new poly(3,4-ethylenedioxythiophene)-poly (styrene sulfonate)/nickel oxide nanoparticles (PEDOT:PSS/NiO) thermoelectric system with a promising thermoelectric power factor. <i>Synthetic Metals</i> , 2022, 288, 117098.	2.1	9
1638	The thermal spin molecular logic gates modulated by light. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169680.	1.0	0
1639	Manipulation of spin Hall magnetoresistance and unidirectional spin Hall magnetoresistance in Ta/Pt/CoFeB multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 560, 169667.	1.0	3
1640	Multifunctional two-dimensional graphene-like boron nitride allotrope of g-B ₃ N ₅ : A competitor to g-BN?. <i>Journal of Alloys and Compounds</i> , 2022, 921, 165913.	2.8	3
1641	Ī-Stacked (C _n -C ₆ H ₆ â€“Feâ€“C ₆ H ₆ â€“C ₁₃ -n) _{n=2} : A spin operated thermoelectric nanodevice. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 170, 110900.	1.9	0
1642	Interplay of spin current and magnetization in a topological-insulator/magnetic-insulator bilayer structure. <i>Physical Review Materials</i> , 2022, 6, .	0.9	0
1643	Rectification of the spin Seebeck current in noncollinear antiferromagnets. <i>Physical Review B</i> , 2022, 106, .	1.1	7
1644	Domain-wall dynamics driven by thermal and electrical spin-transfer torque. <i>Physical Review B</i> , 2022, 106, .	1.1	0
1645	Nonvolatile Electric Field Control of Thermal Magnons in the Absence of an Applied Magnetic Field. <i>Physical Review Letters</i> , 2022, 129, .	2.9	13
1646	The thermal spin molecular logic gates modulated by an electric field. <i>Chinese Physics B</i> , 0, , .	0.7	0
1647	Robust spin injection via thermal magnon pumping in antiferromagnet/ferromagnet hybrid systems. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
1648	High-Temperature-Sensing Smart Bolt Based on Indium Tin Oxide/In ₂ O ₃ Thin-Film Thermocouples with Nickel-Based Single-Crystal Superalloy via Screen Printing. <i>Chemosensors</i> , 2022, 10, 347.	1.8	2
1649	Thickness dependence of spin Seebeck resistivity in polycrystalline YIG films grown by metal organic decomposition method. <i>Current Applied Physics</i> , 2022, 42, 80-85.	1.1	2
1650	A review on two-dimensional (2D) magnetic materials and their potential applications in spintronics and spin-caloritronic. <i>Computational Materials Science</i> , 2022, 213, 111670.	1.4	34
1651	Magnetic proximity effect of YIG/PtSe ₂ . <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 563, 169893.	1.0	1
1652	Spin transport modified by magnetic order. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 563, 169896.	1.0	1
1653	First principles study of thermoelectric performance in pristine and binary alloyed monolayers of noble metals. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 21283-21295.	1.3	2
1654	Large enhancement of magnetic damping in half-metallic Co₂MnSi Heusler alloy thin films with heavy metal Pt layer observed by all-optical method. <i>Japanese Journal of Applied Physics</i> , 0, , .	0.8	0

#	ARTICLE	IF	CITATIONS
1655	Spin wave dispersion relations and isofrequency curve calculations using micromagnetic simulations. Journal of Applied Physics, 2022, 132, .	1.1	1
1656	Thermal Spin Transport Properties in Diarylethene-Based Molecule Devices. Advances in Condensed Matter Physics, 2022, 2022, 1-8.	0.4	1
1657	Giant magnon spin conductivity in ultrathin yttrium iron garnet films. Nature Materials, 2022, 21, 1352-1356.	13.3	17
1658	Thermoelectrics: From longitudinal to transverse. Joule, 2022, 6, 2240-2245.	11.7	23
1659	First-principles theory of intrinsic spin and orbital Hall and Nernst effects in metallic monoatomic crystals. Physical Review Materials, 2022, 6, .	0.9	27
1660	Electrical switching of spin-polarized current in multiferroic tunneling junctions. Npj Computational Materials, 2022, 8, .	3.5	3
1661	Tuning the thermal spin transport properties via redox reactions and force. Spin, 0, , .	0.6	0
1662	Ultrafast spin transport and control of spin current pulse shape in metallic multilayers. Physical Review B, 2022, 106, .	1.1	6
1663	The Giant Spin-to-Charge Conversion of the Layered Rashba Material BiTeI. Nano Letters, 2022, 22, 7441-7448.	4.5	3
1664	Real-space determination of the isolated magnetic skyrmion deformation under electric current flow. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	2
1665	Large antiferromagnetic fluctuation enhancement of the thermopower at a critical doping in magnetic semimetal $\text{Cr}_{1-x}\text{Mn}_x$. Physical Review B, 2022, 106, .	1.1	2
1666	Scalable spin Seebeck thermoelectric generation using Fe-oxide nanoparticle assembled film on flexible substrate. Scientific Reports, 2022, 12, .	1.6	5
1667	Spin-selective thermoelectric transport along a vibrating $\hat{\pm}$ -helical protein molecule. Journal of Physics Condensed Matter, 2022, 34, 475301.	0.7	2
1668	Spin Dependent Thermoelectric Currents of Tunnel Junctions, and Other Nanostructures: Onsager Response-Theory. Topics in Applied Physics, 2022, , 555-569.	0.4	0
1669	Structural, electronic phase transitions and thermal spin transport properties in 2D NbSe_2 and NbS_2 : a first-principles study. Physical Chemistry Chemical Physics, 2023, 25, 1632-1641.	1.3	5
1670	Thermal effects in spintronic materials and devices: An experimentalist's guide. Journal of Magnetism and Magnetic Materials, 2022, 564, 170120.	1.0	3
1671	Finite-frequency spin conductance of the interface between a ferro- or ferrimagnetic insulator and a normal metal. Physical Review B, 2022, 106, .	1.1	0
1672	Spin Seebeck Effect: Sensitive Probe for Elementary Excitation, Spin Correlation, Transport, Magnetic Order, and Domains in Solids. Annual Review of Condensed Matter Physics, 2023, 14, 129-151.	5.2	15

#	ARTICLE	IF	CITATIONS
1673	Synergistically optimized electron and phonon transport of p-type BiCuSeO oxyselenides via Pb dopant and Te composite. <i>Materials Today Physics</i> , 2022, 28, 100898.	2.9	4
1674	Large magnetoresistance in phosphorus-sulfur compounds (TMPS ₄) based temperature regulated spin-caloritronic devices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2023, 146, 115529.	1.3	2
1675	Anomalous Hall effect in Pt/La _{0.67} Sr _{0.33} MnO ₃ heterojunctions. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2023, .	0.2	0
1676	Silicene Nanoribbon Based Spin-Field Effect Transistor With Spin Filtering and Spin Seebeck Effects. <i>IEEE Nanotechnology Magazine</i> , 2022, 21, 720-727.	1.1	3
1677	Spin seebeck effect in bulk YIG sintered by solid state reaction. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
1678	Magnetization manipulation using ultra-short light pulses. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 564, 170169.	1.0	6
1679	Energy output and pavement performance of road thermoelectric generator system. <i>Renewable Energy</i> , 2022, 201, 22-33.	4.3	10
1681	First-principles study to probe the effect of substitution at X and Z sites on the electronic, magnetic and transport properties of Co ₂ X(V, Nb, Ta)Z(Al, Ga, In, Si, Ge, Sn) Heusler alloys. <i>Solid State Communications</i> , 2023, 359, 115022.	0.9	1
1682	Spintronics Based Terahertz Sources. <i>Crystals</i> , 2022, 12, 1661.	1.0	2
1683	Giant spin-dependent Seebeck effect from fully spin-polarized carriers in n-doped EuTiO ₃ : a prototype material for spin-caloritronic applications. <i>Journal of Materials Chemistry A</i> , 2023, 11, 6842-6853.	5.2	1
1684	Technology method and functional characteristics of road thermoelectric generator system based on Seebeck effect. <i>Applied Energy</i> , 2023, 331, 120459.	5.1	84
1685	Exchange bias and interface-related effects in two-dimensional van der Waals magnetic heterostructures: Open questions and perspectives. <i>Journal of Alloys and Compounds</i> , 2023, 937, 168375.	2.8	14
1686	Spin-polarized currents through a triangle quantum dot junction driven by voltage and temperature gradient. , 2023, 174, 207474.		2
1687	Spin Caloritronics. , 2023, , 599-615.		0
1688	Local thermoelectric response from a single Néel domain wall. <i>Science Advances</i> , 2022, 8, .	4.7	1
1689	Magnetic control of heat generation in a magnetic tunnel contact with spin accumulation. <i>Physical Review B</i> , 2022, 106, .	1.1	0
1690	All-electrical reading and writing of spin chirality. <i>Science Advances</i> , 2022, 8, .	4.7	0
1691	Spin caloritronics in a graphene-antimonene heterostructure with high figure of merit: a first principle study. <i>Journal of Computational Electronics</i> , 0, , .	1.3	0

#	ARTICLE	IF	CITATIONS
1692	Spin-flop transition in the quasi-two-dimensional antiferromagnet MnPS_3 detected via thermally generated magnon transport. <i>Physical Review B</i> , 2022, 106, .	1.1	5
1693	Theoretical study of $\text{Cr}_2\text{X}_3\text{S}_3$ ($X = \text{Br}, \text{I}$) monolayers for thermoelectric and spin caloritronics properties. <i>Nanotechnology</i> , 2023, 34, 095704.	1.3	3
1694	Spin Seebeck effect in W-type and Z-type hexagonal ferrite thin films. <i>Journal of Applied Physics</i> , 2022, 132, 245101.	1.1	0
1695	Spintronic Thermoelectric Properties of Amorphous Fe-Ti-Sb Thin Films. <i>Journal of Electronic Materials</i> , 0, , .	1.0	0
1696	Electrical measurement of the spin Hall effect isotropy in ferromagnets with strong spin-orbit interactions. <i>Physical Review B</i> , 2022, 106, .	1.1	2
1697	Thermoelektrischer Basiseffekt. , 2023, , 23-60.		0
1698	Magnetic moment impact on spin-dependent Seebeck coefficient of ferromagnetic thin films. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
1699	A ferromagnetic composite of PEDOT:PSS and nitrogen-graphene decorated with copper oxide nanoparticles with high anisotropic thermoelectric properties. <i>Journal of Materials Chemistry C</i> , 2023, 11, 1483-1498.	2.7	7
1700	Simultaneously enhanced strength and ductility of AlSi7Mg alloy fabricated by laser powder bed fusion with on-line static magnetic field. <i>Virtual and Physical Prototyping</i> , 2023, 18, .	5.3	4
1701	A theory of unusual anisotropic magnetoresistance in bilayer heterostructures. <i>Scientific Reports</i> , 2023, 13, .	1.6	1
1702	Anomalous Nernst effect in compensated ferrimagnetic $\text{Co}_x\text{Gd}_{1-x}$ films. <i>Applied Physics Letters</i> , 2023, 122, .	1.5	4
1703	The pure spin current and fully spin-polarized current induced by the photogalvanic effect and spin-Seebeck effect in halogen-decorated phosphorene. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	2
1704	Spin thermoelectric effects of skyrmions in ferromagnetic topological insulators. <i>Journal Physics D: Applied Physics</i> , 2023, 56, 065001.	1.3	0
1705	Ferrimagnets for spintronic devices: From materials to applications. <i>Applied Physics Reviews</i> , 2023, 10, .	5.5	20
1706	Thermoelectric Generator for Micropower Application Using Household Waste. , 2022, , .		0
1707	THE NATURE AND CONDITIONS OF FORMATION OF THERMOELECTRIC PROPERTIES IN NATURAL AND ARTIFICIAL LAYERED ALUMOSILICATES. <i>Ukrainian Chemistry Journal</i> , 2022, 88, 70-90.	0.1	0
1708	Inverse Orbital Torque via Spin-Orbital Intertwined States. <i>Physical Review Applied</i> , 2023, 19, .	1.5	7
1709	Anomalous Nernst Effect in Flexible Co-Based Amorphous Ribbons. <i>Sensors</i> , 2023, 23, 1420.	2.1	2

#	ARTICLE	IF	CITATIONS
1710	Perylene-based molecular device: multifunctional spintronic and spin caloritronic applications. <i>Physical Chemistry Chemical Physics</i> , 2023, 25, 7354-7365.	1.3	5
1711	Room-Temperature Ferromagnetism Manifests Itself in Ultrathin Pt Films. <i>JPSJ News and Comments</i> , 2023, 20, .	0.2	0
1712	Mechanism of paramagnetic spin Seebeck effect. <i>Physical Review B</i> , 2023, 107, .	1.1	7
1713	Enhanced Thermoelectric Properties of a Semiconducting Two-Dimensional Metal-Organic Framework via Iodine Loading. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 5478-5486.	4.0	0
1714	Enhanced phonon resonance by non-uniform surface nanopillars in Si nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2023, 205, 123903.	2.5	2
1715	Antiferromagnets for Advanced Spintronics. , 2023, , 666-677.		0
1716	Bulk and Thin Film TE Materials and Applications. , 2023, , 405-417.		0
1717	Room-temperature spin injection from a ferromagnetic semiconductor. <i>Scientific Reports</i> , 2023, 13, .	1.6	3
1718	Influence of substrate type and magnetic anisotropy on the spin Seebeck effect in ZnFe ₂ O ₄ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2023, 129, .	1.1	1
1719	Universal behaviors of magnon-mediated spin transport in disordered nonmagnetic metal-ferromagnetic insulator heterostructures. <i>Frontiers of Physics</i> , 2023, 18, .	2.4	2
1720	Magnetoelectric tuning of spin, valley, and layer-resolved anomalous Nernst effect in transition-metal dichalcogenides bilayers. <i>Journal of Physics Condensed Matter</i> , 0, , .	0.7	1
1721	Tunnel magneto-Seebeck effect in magnetic tunnel junctions with a single-crystal barrier. <i>Journal of Magnetism and Magnetic Materials</i> , 2023, 571, 170555.	1.0	0
1722	Observation of the Nernst effect in a GeTe/NiFe structure. <i>Current Applied Physics</i> , 2023, 49, 12-17.	1.1	0
1723	Highly tunable spin Hall magnetoresistance in room-temperature magnetoelectric multiferroic, Sr ₃ Co ₂ Fe ₂₄ O ₄₁ Pt hybrids. <i>Journal of Alloys and Compounds</i> , 2023, 947, 169343.	2.8	1
1724	Development of an annealing process for rapid fabrication of solution-based Y ₃ Fe ₅ O ₁₂ thin films. <i>Thin Solid Films</i> , 2023, 774, 139846.	0.8	0
1725	Recent Progress and Issues for Materials Enabling Interconversion between Electric Current, Spin Current, and Heat Current. <i>Materia Japan</i> , 2023, 62, 85-92.	0.1	0
1726	Seebeck-driven transverse thermoelectric generation in magnetic hybrid bulk materials. <i>Applied Physics Letters</i> , 2023, 122, .	1.5	4
1727	Tunable Spin Seebeck Thermopower in Nonlocal Perovskite MAPbBr ₃ -Based Structure. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	2

#	ARTICLE	IF	CITATIONS
1753	Modeling and Testing of Thermoelectric Generator Based Energy Harvester for Powering Wireless Sensor Node Used in Condition Monitoring System for HVDC Converter. , 2023, , .		0
1763	Towards Whole Day Thermoelectric Energy Scavenging from Solar Using Carbon Based Photothermal Nanofluid. Lecture Notes in Mechanical Engineering, 2023, , 461-467.	0.3	0
1769	Ultra-thin magnetic film with giant phonon-drag for heat to spin current conversion. Materials Horizons, 0, , .	6.4	0
1780	The role of spin in thermoelectricity. Nature Reviews Physics, 2023, 5, 466-482.	11.9	5
1781	Control of THz Emission in Exchange-Coupled Spintronic Emitters. , 2023, , .		0
1783	Thermocouple psychrometers. , 2023, , 339-363.		0
1813	Four-terminal sensing of laser-induced anomalous-Nernst voltages. , 2023, , .		0
1824	Thermal conductivity and thermoelectric power of semiconductors. , 2024, , .		0